

2020 Census

October 2017

Monthly Status Report

All information in this report is as of October 31, 2017
unless otherwise stated in the title of the page.

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Key Program Updates

Department of Commerce Secretary Wilbur Ross testified before the House Committee on Oversight and Government Reform on October 12, 2017, and the Senate Committee on Homeland Security and Governmental Affairs on October 31, 2017. While he addressed the full array of operations for the 2020 Census Program, this was also the fulfillment of his pledge to the Congress in the Spring of 2017 that he would conduct a thorough analysis of the cost and design of the 2020 Census. Central to his testimony was the delivery of a revised lifecycle cost estimate of \$15.6 billion, which includes contingency funding of \$1.2 billion. Detailed information on the new lifecycle cost estimate will be delivered to the Congress in early December.

On October 5, 2017, the Department of Commerce, United States Census Bureau, received GAO's decision sustaining the protest of the Decennial Device as a Service (dDaaS) contract award. The decision included recommendations for corrective action. Census takes GAO's recommendations seriously, and immediately began examining all potential paths forward to enable Census to proceed with this important program without endangering the critical path for the 2020 Decennial Census. As part of that process, Census began developing an action plan to implement GAO's recommended corrective action. Census also convened a meeting with the awardee and the protestor to describe the steps Census was taking and to facilitate a dialogue between the two.

For the **2018 End-to-End Census Test**, the Census Bureau completed Quality Control listing, the final phase of the In-Field Address Canvassing operation, slightly ahead of schedule. [See the September 2017, 2020 Census Monthly Status Report for more details on testing locations, production work, system integration, operational successes, and challenges.] Several successes to note so far: For the first time, the Listing and Mapping Application (LiMA) was integrated with the overall Operation Control System – Enterprise Censuses and Surveys Enabling (ECaSE) will be used in the 2020 Census. This was the first test of overall integration of decennial systems. Also for the first time, the Census Bureau used, and integrated with other systems, the planned 2020 Decennial Applicant Personnel, and Payroll System (DAPPS) for capturing time and expenses of field staff. Another big success is the successful implementation of an independent quality control component for address canvassing. Currently 24 systems for the 2020 Census have been released, tested, received authorization to operate, deployed, and used or are being used in support of the 2018 End-to-End Census Test. Of these 24 systems, 23 were used for the Address Canvassing operation. One system, the Recruitment and Assessment (R&A) system, was deployed for recruiting staff for peak operations. Significant efforts continue to prepare and integrate geographic files, systems, applications, recruiting and hiring, forms, and a myriad of other activities needed to conduct peak operations next spring (see pp. 10-14).

Other operations for the 2018 End-to-End Census Test, Self-Response and Non-ID Processing, followed by personal visit interviewing of nonresponding addresses and Group Quarters data collection, will take place next spring and summer in Providence, Rhode Island.

Based on the 2020 Census Integrated Master Schedule, through October 31, 2017, 57.1 percent of the activities in the 2018 End-to-End Census Test had been completed (see pp. 43).

Key Program Updates cont'd

For the **2020 Census operations** (see pp. 22-35), the next iteration of the 2020 Census Operational Plan (v.3.0), was issued on October 27, 2017. Detailed Operational Plans (DOPs) also will be prepared and released for 33 of the 35 operations that constitute the 2020 Census, and 16 of those DOPs already have been released in the *2020 Census Memorandum Series.

The Census Bureau completed and made public the **2020 Census Integrated Communications Plan at the 2020 Census Quarterly Program Management Review as well. This first draft of the 2020 Census Integrated Communications Plan (v1.0) identifies the path forward for future communications-related efforts. It lays out the foundational steps to develop a comprehensive communications campaign and provides a high-level overview of anticipated communications strategies. The activities and strategies described within this draft are intended to reflect the planned and potential efforts of the Census Bureau as an agency; distinctions among internal Census Bureau teams and contractor roles and responsibilities will be detailed in future iterations of the plan. This draft sets the foundation that will guide the development of a final research-based, data-driven integrated communications and partnership plan for the 2020 Census and the identification of campaign audiences, themes, and messaging. Future iterations of the plan (v2.0 to be produced in summer 2018 and v3.0 in summer 2019) will be augmented with findings from yet-to-be completed campaign research, and they will provide greater detail as 2020 approaches.

The promotional outreach events continued for the Local Update of Census Addresses (LUCA) Program, the first major operation for the 2020 Census. A total of 668 promotional presentations have been completed as of October 30, 2017, and another 49 promotional events are scheduled in November 2017. Printing and shipping of LUCA Invitation Reminder packages were completed on October 9, 2017, to tribal, state, and local governmental entities. Within the Invitation Reminder packages are the registration forms and security guideline forms which the governmental entities will need to return before they can participate in the LUCA address review. As of October 30, 2017, the Census Bureau had received 12,115 responses from the 39,332 unique governments that are eligible to participate and therefore received invitations; 6,513 have registered to participate in the LUCA Operation, covering 60.3 percent of the population and 60.4 percent of the housing by at least one LUCA participant.

The 2020 Census Redistricting Data Program (RDP) submitted for publication in the Federal Register, as part of Phase 3 – Data Delivery of the RDP, the proposed design for the 2020 Census P.L. 94-171 Redistricting Data File to be produced as a prototype product from the 2018 End-to-End Census Test.

The 2020 Census In-Office Address Canvassing Interactive Review (IR) production continues, and is meeting the expected production goals. The clerks have reviewed 11,155,278 blocks during Interactive Review from the beginning of production in September 2015 through October 31, 2017. They have completed 100 percent of the 11,155,485 total blocks nationally

*Available on the Census Bureau website at <<https://www.census.gov/programs-surveys/decennial-census/2020-census/planning-management/memo-series.html>>. (The two operations for which DOPs are not produced are Program Management and Systems Engineering and Integration. These two operations produce a variety of other specific artifacts and outputs that are more suited to showing the progress and contributions of these operations.)

**2020 Census Integrated Communications Plan, https://www.census.gov/programs-surveys/decennial-census/2020-census/planning-management/planning-docs/integrated_com_plan.html

Key Program Updates cont'd

through the **first pass** in Interactive Review. Going forward, blocks will continue to be triggered back in for review as needed. Forty-two staff are working Interactive Review (IR) in production, and 18 are performing Quality Control (QC). This process classifies the blocks into three categories:

- Passive = blocks that do not show signs of change and need no further review at this time.
- Active = blocks that show signs of change and need to move to the next phase of In-Office Address Canvassing for further review.
- On Hold = blocks that need new imagery to do the Interactive Review.

As of October 31, 2017, 60.7 percent of the blocks were classified as Passive, 28.9 percent were classified as Active, and 8.4 percent were classified as On-Hold. As of October 31, 2017, 157,908 blocks have been triggered for IR re-review. Triggered blocks which are still being worked through IR will be included in the "Total Blocks Reviewed" number above, but not be included in any of the Totals (Active, Passive, Hold) until they are re-reviewed. The triggered blocks accounted for 2.0 percent of the total completed. Blocks may remain in "On Hold" status for review at a later date due to "future growth" (for instance, there are signs that construction will be taking place but the houses are not built) or "imagery issues" (for instance, cloud cover obscures views of the structures).

The Census Enterprise Data Collection and Processing (CEDCaP) program (see pp. 37-38) provided the final version of their vision/scope documentation for release to the 2020 Census program and for 2020 Census Portfolio Management Governing Board approval. For Product Release 8 (2018 End-to-End Census Test), the program supported joint Decennial and CEDCaP Systems Requirement Review, and continued iterative development and testing for needed CEDCaP capabilities.

Systems Engineering and Integration completed the 2020 System Requirements Review #3 (SRR#3) on October 5, 2017. In (SRR#3), the Decennial Census Management Division (DCMD) presented the business requirements for 2020 Census peak operations plus Local Update of Census Addresses (LUCA) and Geographic Programs.

The following are the major contracts the Census Bureau has acquired to aid in the 2020 Census: Census Questionnaire Assistance (CQA), Census - Schedule A Human Resources and Recruiting, Payroll System (C-SHaRPS), Third-Party Fingerprinting (not awarded), decennial Device as a Service (dDaaS), Immix/Pega [sub, Decennial Service Center (DSC)], 2020 Field IT Deployment (FITd), Integrated Communications Contract (ICC), Technical Integrator, Pega, and Printing.

For the Census Bureau-United States Postal Service (USPS) Partnership effort, the focus has been on the Postal Carriers as Enumerators pilot. The two pilot sites are North Attleboro, Massachusetts; and Warwick, Rhode Island. Comments on the Interagency Agreement were received from many USPS and Census Bureau stakeholders and are being incorporated.

Key Program Updates cont'd

USPS was welcomed at the Census Bureau to conduct a registration drive for Informed Delivery, where just under 100 people signed up for the free notification service that gives eligible residential consumers the ability to preview their letter mail, wherever they are, before it arrives. To further the partnership, Census Bureau staff met with the USPS Chief Marketing Officer and marketing team to continue exploring partnership opportunities for the 2020 Census.

Some other key program updates include:

2018 End-to-End Census Test

- Completed In-Field Address Canvassing Quality Control listing before the scheduled completion date of October 5, 2017.
- Facilitated a Paper Data Capture (PDC) Stakeholder meeting with the Technical Integrator (TI) on October 10, 2017, to walk through the 2018 End-to-End Census Test data capture operation and discuss the TI's proposed approach to the Paper Handling Analysis of Alternatives (AoA).
- Conducted the Training Release 2 (Field Enumeration) Test Readiness Review (TRR) on October 11, 2017.
- Cancelled the Release C (self-response) TRR #1, which was scheduled for October 11, 2017. Due to the replan of the Group Quarters operation, the software planned for TRR #1 was rescheduled as a new TRR #3 in March 2018.
- Delivered Geographic Reference File-Codes (GRF-C) files, Geographic Reference File-Names (GRF-N) Files, Master Address File Extract (MAFX) files, and Spatial Data to Decennial Statistical Studies Division, Field Division, the Control and Response Data System (CaRDS), and the Decennial Applicant Personnel and Payroll System (DAPPS) for TRR on October 11, 2017.
- Census Enterprise Data Collection and Processing (CEDCaP) Product Release 8 (2018 End-to-End Census Test) delivered capabilities for Training Release 2 (Field Enumeration) on October 11, 2017. Systems in this release include ECaSE-FOCS, ECaSE-Enum, Listing and Mapping Application/Mobile Case Management (LiMA/MCM) and Service Oriented Architecture (SOA).
- Delivered the GRF-C to Enterprise Censuses and Surveys Enabling (ECaSE) for TRR on October 12, 2017.
- The Government Publishing Office (GPO) awarded the contract to Cenveo to acquire the necessary printing and mailing services to support self-response for the Test, with an option for extending through the 2020 Census, on October 16, 2017.
- Held 2018 End-to-End Census Test Address Canvassing Just In Time Debriefing Webinar for Providence, Rhode Island, Area Census Office management staff and Regional Census Center Area managers on October 18, 2017.
- Received the Address Canvassing Address Update file (ADDUP) and the Associated Structure Coordinate Update File (STRUCT) on October 20, 2017.
- Continued iterative development and testing for CEDCaP Capabilities for Release C Self-Response (in preparation for the Test Readiness Review scheduled for November 17, 2017) and Release D Field Enumeration (in preparation for the Test Readiness Review scheduled for December 6, 2017).

Key Program Updates cont'd

2018 End-to-End Census Test Cont'd

- Enterprise Censuses and Surveys Enabling-Internet Self-Response (ECaSE-ISR) continued development for the Internet Self-Response (ISR) application, Census Questionnaire Assistance-Internet Self-Response (CQA-ISR) application, and Coverage Improvement Application.
- Awaiting clearance from the Department of Commerce to publish the Federal Register Notice on the draft design of the prototype P.L. 94-171 Redistricting Data File to be produced from the 2018 End-to-End Census Test. Revisions to the file structure account for the use of a combined race and ethnicity question in the Test and for a proposed group quarters table. The public will have 60 days to comment on the Notice once it is published in the Federal Register.
- Began development of scope for 2018 Systems Interface testing for the apportionment calculation (this will be a simulation using 2010 data).

2020 Census Operations

- Participated in a 2020 schedule integration session, specific to 2020 Address Canvassing schedule development, on October 3, 2017.
- Participated in a Training Release 1/Release A/Recruiting Release 2 lessons learned session between system and operation areas, related to Address Canvassing on October 4, 2017.
- Held quarterly meeting on October 4, 2017, with the Government Accountability Office to discuss Open Recommendations, Strategies and Priorities.
- Completed the 2020 System Requirements Review #3 (SRR#3) on October 5, 2017. In SRR#3, the Decennial Census Management Division (DCMD) presented the business requirements for 2020 Census peak operations plus Local Update of Census Addresses (LUCA) and Geographic Programs.
- Released on October 6, 2017, final reports on 2020 Census tribal consultations with the following groups: State-Recognized Tribes, Federally Recognized Tribes, Oklahoma Tribes, and the Navajo Nation, respectively.
- The Integrated Communication Contractor (Team Young & Rubicam [Y&R]) delivered the final English language questionnaire for the Census Barriers, Attitudes, and Motivators Study (CBAMS) survey based on final comments from the Census Bureau on October 9, 2017, and the Spanish language questionnaire on October 13, 2017.
- Delivered 2020 Group Quarters operations requirements to the Decennial Contracts and Execution Office (DCEO) and the Chief Technology Office on October 13, 2017.
- Released Version 1 of the 2020 Integrated Communications Plan to the public on October 27, 2017.
- Held quarterly 2020 Census Program Management Review on October 27, 2017.
- Issued the 2020 Census Operational Plan (v.3.0) on October 27, 2017. Detailed Operational Plans (DOPs) also will be prepared and released for 33 of the 35 operations that constitute the 2020 Census, and 16 of those DOPs already have been released in the *2020 Census Memorandum Series.

*Available on the Census Bureau website at <<https://www.census.gov/programs-surveys/decennial-census/2020-census/planning-management/memo-series.html>>. (The two operations for which DOPs are not produced are Program Management and Systems Engineering and Integration. These two operations produce a variety of other specific artifacts and outputs that are more suited to showing the progress and contributions of these operations.)

Key Program Updates Cont'd

2020 Census Operations Cont'd

- Invited official liaisons to participate in Phase 2, the Voting District Project, of the Redistricting Data Program (RDP) and informed legislative leadership of that invitation.
- Submitted for publication in the Federal Register, as part of Phase 3–Data Delivery of the RDP, the proposed design for the 2020 Census P.L. 94-171 Redistricting Data File to be produced as a prototype product from the 2018 End-to-End Census Test.

Status of Major Tests

2018 End-to-End Census Test

Description

The 2018 End-to-End Census Test objectives are to:

- Test and validate 2020 Census operations, procedures, systems, and field infrastructure together to ensure proper integration and conformance with all requirements.
- Produce a prototype of 2020 Census geographic and data products.

The Test includes aspects of all four key innovation areas of the 2020 Census Program: reengineering address canvassing, optimizing self-response, utilizing administrative records and third-party data, and reengineering field operations. Additionally, the Test will introduce enterprise systems that were not used in earlier census tests, expand systems already in use, and enhance system use of Cloud technologies.

The Address Canvassing portion of the Test took place in three sites: Providence County, Rhode Island; Pierce County, Washington; and the Bluefield-Beckley-Oak Hill area of West Virginia. Providence County, Rhode Island's demographics mirror those of the nation, providing a microcosm of the 2020 Census experience. Pierce County, Washington, offered a large military population, while Bluefield-Beckley-Oak Hill, West Virginia, provided a very rural environment, simulating unique challenges that the Census Bureau will face in 2020. The remaining operations for the Test will continue in Providence County, Rhode Island.

Key Activities

Publish Paperwork Reduction Act Presubmission Federal Register Notice for Early Operations – October 7, 2016 (published on October 19, 2016)

Conduct In-Office Address Canvassing – November 16, 2016 – February 2, 2017 (started on September 26, 2016; completed on January 27, 2017)

Open Regional Census Centers (RCC) – January 3, 2017 (completed on January 3, 2017)

Deliver Office of Management and Budget (OMB) (Paperwork Reduction Act) Clearance Package for Early Operations – January 24, 2017 (published January 10, 2017)

Receive OMB (Paperwork Reduction Act) Approval for Early Operations – March 27, 2017 (completed on March 23, 2017)

Publish Presubmission Federal Register Notice for Peak Operations – March 1, 2017 (completed on March 29, 2017)

Begin Recruiting for Early Operations – March 10, 2017 (begun on March 31, 2017)

Open Area Census Offices (ACO) – March 31, 2017 (Providence ACO opened May 26, 2017; Beckley and Seattle ACOs opened July 17, 2017)

Deliver OMB (Paperwork Reduction Act) Clearance Package for Peak Operations – July 21, 2017 (completed on July 14, 2017)

Receive OMB (Paperwork Reduction Act) Approval for Peak Operations – September 12, 2017 (completed on September 15, 2017)

Conduct In-Field Address Canvassing – August 28, 2017 – September 29, 2017 (completed on September 29, 2017)

Conduct In-Field Address Canvassing Listing Quality Control (QC) – September 5, 2017 – October 6, 2017 (completed on October 5, 2017)

2018 End-to-End Census Test

Key Activities Cont'd

Begin Recruiting for Peak Operations – August 31, 2017 (began September 5, 2017)
Conduct Census Questionnaire Assistance (CQA) – March 16, 2018 – July 31, 2018
Conduct Paper Data Capture – March 19, 2018 – August 31, 2018
Conduct Self-Response, Including Non-ID Processing – March 16, 2018 – July 31, 2018
Conduct Coverage Improvement – March 30, 2018 – July 31, 2018
Census Day – April 1, 2018
Conduct Update Leave (UL) – April 9, 2018 – May 4, 2018
Conduct UL Listing QC – April 16, 2018 – May 11, 2018
Conduct Nonresponse Followup (NRFU) – May 9, 2018 – July 24, 2018
Conduct NRFU Reinterview – May 10, 2018 – July 31, 2018
Conduct Group Quarters (GQ) Advance Contact – June 18, 2018 – July 10, 2018*
Conduct GQ Enumeration – July 25, 2018 – August 24, 2018 (Including SBE)*
Conduct GQ Enumeration QC – July 25, 2018 – August 24, 2018*
Conduct GQ Enumeration, Late Production – June 11, 2018 – July 24, 2018 (cancelled as a separate activity due to revised operational schedule)
Publish Prototype P.L. 94-171 Data and Support Products – no later than April 1, 2019
*Dates have been adjusted to reflect operation schedule.

Summary of Activities (Last 30 Days)

Address Canvassing

Completed In-Field Address Canvassing Quality Control listing before the scheduled completion date on October 5, 2017.

Program Management

The 2018 End-to-End Census Test Plan was approved on October 31, 2017.

Systems Engineering and Integration

1. Conducted the Training Release 2 (Field Enumeration) Test Readiness Review (TRR) on October 11, 2017.
2. Cancelled the Release C (Self-Response) TRR #1, which was scheduled for October 11, 2017. Due to the replan of the Group Quarters operation, the software planned for TRR #1 was rescheduled as a new TRR #3 in March 2018.

Security, Privacy, and Confidentiality

Worked with the Office of Information Security (OIS) to develop a schedule for systems undergoing an Authorization To Operate (ATO). This was developed with OIS because the previous schedule was not as detailed as it needed to be.

Content and Forms Design

Conducted project-level testing of English and non-English questionnaire content.

2018 End-to-End Census Test

Summary of Activities (Last 30 Days) cont'd

Recruiting, Training, and Onboarding

Held 2018 End-to-End Census Test Address Canvassing Just in Time Debriefing Webinar for all Providence, Rhode Island, Area Census Office (ACO) management staff and Regional Census Center (RCC) area managers on October 18, 2017.

Geographic Programs

1. Delivered Geographic Reference File-Codes (GRF-C) files, Geographic Reference File-Names (GRF-N) Files, Master Address File Extract (MAFX) files, and spatial data to Decennial Statistical Studies Division, Field Division, the Control and Response Data System (CaRDS), and the Decennial Applicant Personnel and Payroll System (DAPPS) for TRR on October 11, 2017.
2. Delivered the GRF-C to Enterprise Censuses and Surveys Enabling (ECaSE) for TRR on October 12, 2017.
3. Received the Address Canvassing Address Update file (ADDUP) and the associated Structure Coordinate Update File (STRUCT) on October 20, 2017.

Forms Printing and Distribution

The Government Publishing Office (GPO) awarded the contract to acquire the necessary printing and mailing services to support self-response for the Test, with an option for extending through the 2020 Census, on October 16, 2017.

Paper Data Capture (PDC)

1. Facilitated a PDC stakeholder meeting with the Technical Integrator (TI) on October 10, 2017, to walk through the 2018 End-to-End Census Test data capture operation and discuss the TI's proposed approach to the Paper Handling Analysis of Alternatives (AoA).
2. Met with the Census Experiments Branch on October 11, 2017, to begin work on the 2018 End-to-End Census Test Paper Data Capture Operational Assessment Study Plan.
3. Met with the Operational Testing and Management Branch (OTMB) on October 12, 2017 and October 19, 2017, to discuss Operational Readiness Testing (ORT) activities related to 2018 End-to-End Census Test Release C Paper Data Capture. A testing checklist was created to identify activities of the PDC operation and the areas/staff responsible for those activities.
4. Participated in the Technical Integrator (TI) Program Management Review on October 25, 2017.
5. Reviewed and commented on the following TI deliverables provided under the TI Technical Directives (TD) for PDC: Preliminary Physical Layout Drawings for Paper Data Capture Centers to Support the 2018 End-to-End Census Test; AoA; Automated Conveyor; Final Decennial Intelligent Mail® Barcode Postal Tracking System (IPTS) Solution Architecture/Physical Architecture; and revised Integrated PDC Business Process Model (BPM).
6. Completed the Quality Audit/Surveillance (QAS) form for Technical Directive 013 and provided it to the Decennial Contracts Execution Office.

2018 End-to-End Census Test

Summary of Activities (Last 30 Days) Cont'd

Internet Self-Response

1. Enterprise Censuses and Surveys Enabling-Internet Self-Response (ECaSE-ISR) continued development for the Internet Self-Response (ISR) application, Census Questionnaire Assistance-Internet Self-Response (CQA-ISR) application, and Coverage Improvement Application. Development on the ISR and CQA-ISR applications should be completed by the end of November 2017, provided project-level testing is conducted and completed.
2. Completed documentation of data flow from the ISR application to the Census Data Lake (CDL). This will be used by ECaSE for the Interface Control Documentation (ICD). This activity is still on schedule.
3. Began project-level testing of ISR on October 26, 2017.

Update Leave (UL)

1. Updated the UL Assessment Study Plan based on comments from the 2020 Census Portfolio Management Governing Board (PMGB).
2. Delivered the final version of the UL Questionnaire Printing Specification to the Integrated Project Team and to the system recipients on October 19, 2017.
3. Finalized the priority of user stories for developing the Field Operational Control System (FOCS) and delivered the list to the development team on October 23, 2017.

Group Quarters (GQ)

1. Submitted change request and received approval to conduct the 2018 End-to-End Census Test GQ Advance Contact from June 18, 2018 to July 10, 2018, Service-Based Enumeration from July 25, 2018 to July 27, 2018, and GQ Enumeration from July 30, 2018 to August 24, 2018, on October 3, 2017.
2. Completed 2018 End-to-End Census Test GQ Advance Contact Manuals and Training Guides for Clerks on October 10, 2017.
3. Conducted quality assurance review for the Centurion system supporting the 2018 End-to-End Census Test GQ electronic response submission operation on October 11, 2017.
4. Presented 2018 End-to-End Census Test GQ Advance Contact Study Plan to Decennial Research Objectives and Methods (DROM) Group committee on October 12, 2017.

Census Questionnaire Assistance (CQA)

1. Implemented the global change request to the Integrated Master Schedule to include all final interfaces and external dependencies for CQA.
2. Completed, on October 14, 2017, the second phase of the CQA system build in preparation for systems testing in November 2017.
3. Began work on the third and final phase of the CQA system build to correct defects and prepare for production readiness on October 15, 2017.

2018 End-to-End Census Test

Summary of Activities (Last 30 Days) cont'd

Nonresponse Followup (NRFU)

1. Baselined NRFU capability requirements and business process models for the 2018 End-to-End Census Test on October 10, 2017.
2. Submitted specifications for workload creation, administrative records modelling, NRFU mail out, contact strategies, field operational control, quality control, and data types (NRFU Compiled Specification) to system stakeholders for review on October 16, 2017.
3. Participated in User Acceptance Testing (UAT) of Enterprise Censuses and Surveys Enabling-Enumeration (ECaSE-Enum) starting on October 25, 2017.

Non-ID Processing

Reviewed and approved final management (operational progress) report requirements on October 12, 2017.

Redistricting Data Program

Awaiting clearance from the Department of Commerce to publish the Federal Register Notice on the draft design of the prototype P.L. 94-171 Redistricting Data File to be produced from the 2018 End-to-End Census Test. Revisions to the file structure account for the use of a combined race and ethnicity question in the Test and for a proposed group quarters table. The public will have 60 days to comment on the Notice once it is published in the Federal Register.

Data Products and Dissemination

Began development of scope for 2018 Systems Interface testing for the apportionment calculation (this will be a simulation using 2010 data). Working with Population Division to determine how to test systems in their ability to receive (transfer) files.

Decennial Service Center

1. Completed support for the Address Canvassing operation on October 19, 2017.
2. Conducted lessons learned in support of the Address Canvassing operation.

Look Ahead (Next 60 Days) cont'd

Address Canvassing

Begin writing first drafts of both the 2018 End-to-End Census Test Address Canvassing Operational Assessment and 2018 End-to-End Census Test Address Canvassing Evaluation report.

Systems Engineering and Integration

1. Conduct the Release C (Self-Response) Test Readiness Review (TRR) #2 on November 17, 2017.
2. Conduct the Release D (Field Enumeration) TRR #1 on December 6, 2017.

2018 End-to-End Census Test

Look Ahead (Next 60 Days) cont'd

Content and Forms Design

1. Review and approve final print files for Internet Self-Response, Group Quarters, Update Leave, and Nonresponse Followup.
2. Participate in project-level testing of questionnaire content.

Language Services

1. Participate in project-level testing of non-English questionnaire content.
2. Participate in project-level testing of translations of the Internet Self-Response instrument, Census Questionnaire Assistance instrument, and Nonresponse Followup field enumeration instrument.

Recruiting, Training, and Onboarding

Award Third Party Vendor Fingerprinting Contract in November.

Geographic Programs

Deliver Master Address File Extract (MAFX) for TRR to Concurrent Analysis and Estimation System (CAES) on November 17, 2017. Deliver transaction files, metrics, and tallies from In-Field Address Canvassing by December 28, 2017.

Decennial Service Center

1. Continue to build knowledge base articles and training materials for the Decennial Service Center and IT staff at the Regional Census Centers (RCCs) and Area Census Offices (ACOs). These are being built so the IT staff at the RCCs and ACOs can be prepared to best help the customers who call the Decennial Service Center.
2. Continue the process of obtaining IT support requirements for the Nonresponse Followup (NRFU) operation. The Decennial Service Center will continue to obtain NRFU IT requirements for enhancing the Decennial Information Technology Service Management (ITSM) system and updating training materials. The Decennial ITSM system and training materials will be used by IT staff located in the RCCs, ACOs, and Census Bureau headquarters during NRFU.

Paper Data Capture (PDC)

Receive updated/revised Technical Integrator deliverables.

Internet Self-Response

1. Complete project-level testing by Test Readiness Review for Release C on November 17, 2017.
2. Work with ECaSE development team to complete and finalize documentation of data flow from Internet Self-Response applications by November 17, 2017.

Update Leave (UL)

Update and redeliver the workload universe specification to ECaSE-OCS product owner and development team.

2018 End-to-End Census Test

Look Ahead (Next 60 Days) Cont'd

Census Questionnaire Assistance (CQA)

1. Deliver key documents required for the Release C TRR Exit Criteria, as it relates to CQA contractor deliverables.
2. Present the CQA Study Plan to the 2020 Census PMGB for final approval.
3. Participate in program-level testing of the CQA solution with the Internet Self-Response instrument, the Nonresponse Followup Re-interview interface, and the Coverage Improvement instrument after the Test Readiness Review on November 17, 2017.
4. Begin assessing security controls in preparation for being granted ATO for CQA systems.
5. Receive ATO for CQA facilities.
6. Begin hiring call center staff for operations.

Nonresponse Followup (NRFU)

1. Gain approval of specifications for workload creation, administrative records modelling, NRFU mail out, contact strategies, field operational control, quality control, and data types from system stakeholders.
2. Review and prioritize requirements for Enterprise Censuses and Surveys Enabling-Survey Operational Control System (ECaSE-SOCS) and Enterprise Censuses and Surveys Enabling-Field Operational Control System (ECaSE-FOCS) for NRFU operations.
3. Participate in User Acceptance Test of ECaSE-Enum through November 7, 2017.
4. Submit IT support requirements to the Decennial Service Center (DSC) operation for the Nonresponse Followup operation.
5. Participate in TRR for Release D on December 6, 2017.
6. Submit specifications for close out procedures to system/operation stakeholders.

Non-ID Processing

Complete final draft of the Assessment Study Plan for Non-ID Processing and present it to the 2020 Census PMGB for approval in November.

Coverage Improvement (CI)

1. Conduct project-level testing of Coverage Improvement-ISR application.
2. Participate in project-level testing of ISR instrument and program-level testing of Census Questionnaire Assistance solution.
3. Complete final draft of Summary Plan for CI and present it to the 2020 Census PMGB.

United States Postal Service (USPS) Coordination Team

1. Finalize Interface Control Document and Interagency Agreement for automated mail tracing.
2. Finalize Interagency Agreement for Postal Carriers as Enumerators Pilot by December 31, 2017.

2018 End-to-End Census Test

Look Ahead (Next 60 Days) Cont'd

Data Products and Dissemination

Finalize Census Public Access Security System (CPASS) log-in requirements for embargo feature and provide to Telecommunications Office for data dissemination during the Test. The CPASS system provides the means for communication and implementation of embargo for data products. The embargo will permit state officials, State Data Centers, and the media advance access to the new dissemination of Redistricting (P.L. 94-171) data before it is made public.

The Evaluations and Experiments team:

The DROM working group will review four 2018 End-to-End Census Test study plans.

2017 Census Test

Description

Pursuant to 2020 Census Program Memorandum 2016.21, the scope of the 2017 Census Test was reduced in response to funding uncertainty in Fiscal Year 2017. As a result, the 2020 Census Program did not conduct the Fiscal Year 2017 field testing operations in the Standing Rock Reservation in North Dakota and South Dakota and the Colville Reservation and Off-Reservation Trust Land in Washington state. Field testing planned for three areas in Puerto Rico was also cancelled.

Status of Current Activities

Analysis reports are being prepared. Once complete, the reports will be issued, on a flow basis, through the 2020 Census Memorandum Series.

Reports Under Development/Review

- 2017 Census Test Analysis Report for Non-ID Processing operation (Internal review of final draft underway in preparation for briefing Decennial Research Objectives and Methods [DROM] working group in November 2017).

Summary of Activities (Last 30 Days)

Internet Self-Response

Continued analysis of 2017 Census Test data.

Look Ahead (Next 60 Days)

Internet Self-Response

Continue analysis of 2017 Census Test data. There are no plans for an official report due to resource constraints.

Non-ID Processing

Complete final draft of the analysis report for the 2017 Non-ID Processing operation and present it to the DROM working group for discussion.

Address Canvassing Test

Description

The Address Canvassing Test conducted in 2016 focused on the following: (1) measuring the effectiveness of In-Office Address Canvassing through In-Field Address Canvassing; (2) measuring the effectiveness of In-Field Address Canvassing; and (3) understanding the implications of moving from Assignment Area (a grouping of blocks) to Basic Collection Unit (BCU), which encompasses the characteristics of both collection blocks and assignment areas. See Appendix C for more details.

Summary of Activities (Last 30 Days)

The Address Canvassing Test Analysis Report is being revised by Decennial Census Programs Directorate leadership.

2016 Census Test

Description

The 2016 Census Test was an operational study of both self-response and nonresponse followup procedures. See Appendix C for more details.

Status of Current Activities

Analysis reports are being finalized. Once complete, the reports will be issued, on a flow basis, through the 2020 Census Memorandum Series.

Reports under Development/Review

- 2016 Census Test Report – Overview (Expected completion on December 29, 2017.)
- 2016 Census Test Coverage Reinterview Analysis Report (Expected completion was April 30, 2017; delayed until November 30, 2017, due to resource limitations.) (Approved by the Decennial Research Objectives and Methods (DROM) Group and the 2020 Census Portfolio Management Governing Board (PMGB).)
- 2016 Group Quarters Electronic Response Independent Test Analysis Report (Detailed report will not be produced due to resource issues. A high-level summary document will be issued in the Decennial Statistical Studies Division's Memorandum Series.)
- 2016 Census Test Administrative Record Usage Report (Expected completion on November 30, 2017.)
- 2016 Census Test: In-Office Address Canvassing Report (This report will not be produced due to resource issues. Release of any relevant results will be issued in the Decennial Statistical Studies Division's Memorandum Series.)
- 2016 Census Test Nonresponse Followup Operational Assessment Report (Expected completion December 15, 2017.) In development.

Reports Issued

- 2016 Census Test: Non-ID Response Validation Recollect Analysis Report (July 27, 2017).
- 2016 Service-Based Enumeration Census Test Analysis Report (August 15, 2017).
- 2016 Census Test–Evaluating the Decennial Census Call-in Option: Results from an Interviewer Debriefing of the 2016 Census Test Report (August 18, 2017).
- 2016 Census Test Optimizing Self-Response, Language Services, Race and Ethnicity, and Relationship Report (September 15, 2017).
- 2016 Census Test Analysis– Non-ID Processing Report (October 27, 2017).

Status of Major 2020 Census Operations

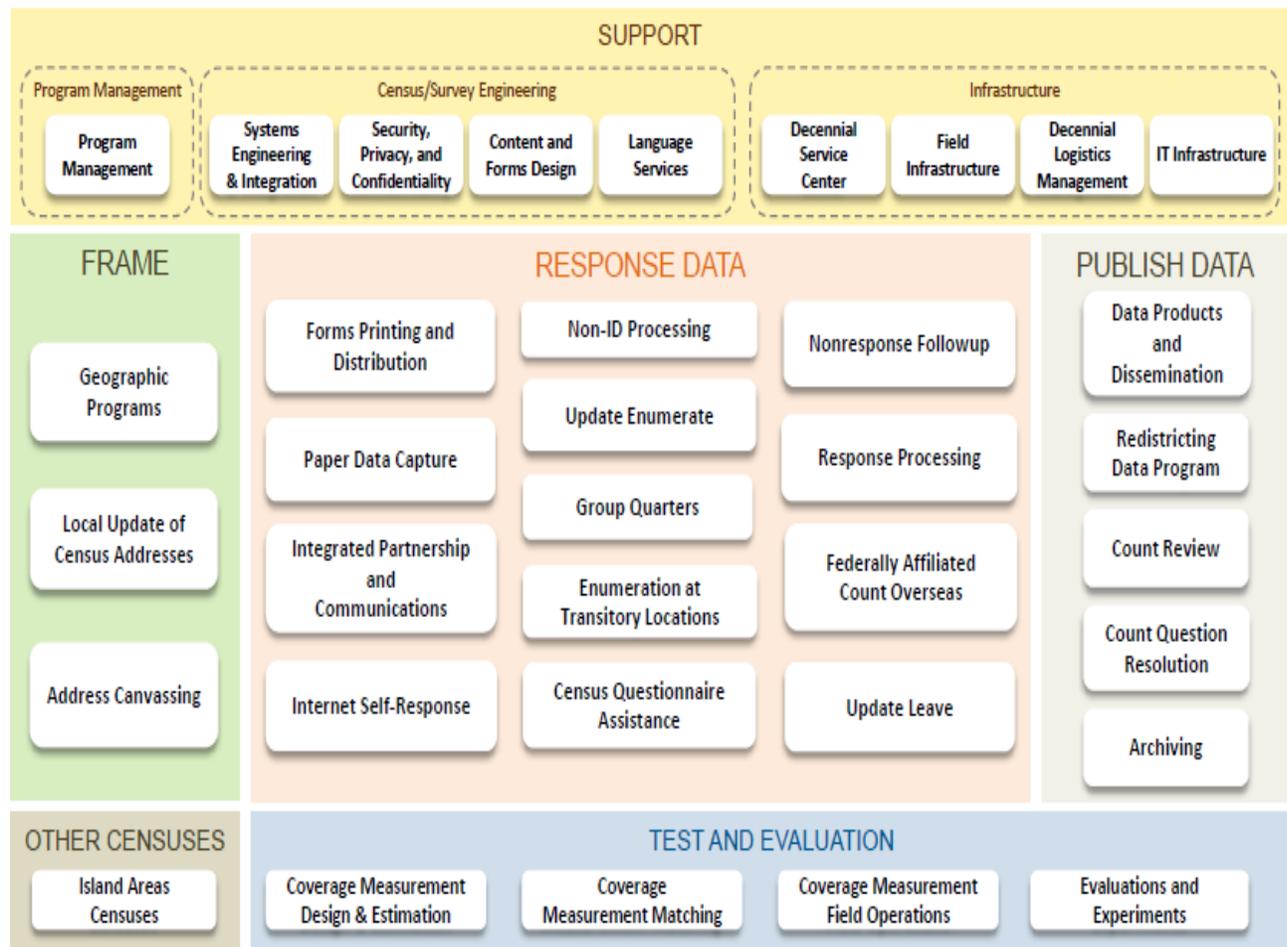
The 2020 Census includes 35 operations that are organized into eight major areas that correspond with the Census Bureau Standard Work Breakdown Structure (WBS). The term operation refers to both support and business functions.

The status of these operations is reported on the following pages, which are organized by major area. Please note, only operations that are underway are discussed on the following pages.

Appendix A describes the 35 operations of the 2020 Census.

Completed or planned activities specifically supporting past or current Tests are reported on the relevant Test pages (pages 10 – 20). Otherwise, they are reported on the relevant 2020 Census Operations pages (pages 22 – 35).

Figure 1: Operational Overview by WBS



Census/Survey Engineering

Description

Four operations support the Census/Survey Engineering area of the 2020 Census: Systems Engineering and Integration (SE&I); Security, Privacy, and Confidentiality; Content and Forms Design; and Language Services. For the description of these operations, please see Appendix A.

Table 1: SE&I Review Descriptions

Review	Description
Critical Business Proposal Review (CBR)	Review of initial high-level architecture to ensure inclusion of appropriate systems to implement the desired subset of the 35 operations.
Project Baseline Review (PBR)	Review of program baselines. Schedule, organizational structure, risk, etc.
Systems Requirements Review (SRR)	Joint review of Project-Level Business Requirements/Capability Requirements (PLBR/CAP) by engineering and operations.
Critical Design Review (CDR)	Review of high-level architecture and detailed business processes that define the subset of operations, interfaces, etc. Includes allocation of requirements to systems and the defined releases.
Test Readiness Review (TRR)	Ensures appropriate test objectives, methods procedures, scope and environments. Assesses readiness of systems to begin independent program-level testing. Marks the beginning of testing by the Program Test Team.
Production Readiness Review (PRR)	Assessment of test results to ensure systems are ready for operations testing.
Operational Readiness Review (ORR)	Assessment of operational testing to ensure full operation is ready to go-live.

Table 2: 2018 SE&I Release Functionality Key

2018 Release	Functionality
Release A	In-Field Address Canvassing
Release B	Coverage Measurement – Independent Listing
Release C	Self-Response
Release D	Field Enumeration
Release E	Tabulation/Dissemination
Release F	RESERVED
Release G	Geographic Programs / Local Update of Census Addresses (LUCA)
Release H	RESERVED
Release I	In-Office Address Canvassing
Release J	RESERVED
Release K	Coverage Measurement – Initial Housing Unit Followup, Person Interview
Release L	Coverage Measurement – Person Interview Matching
Release M	Coverage Measurement – Person Followup
Release N	Coverage Measurement – Final Housing Unit Followup
Release O	Coverage Measurement – Reports & Release Findings
Release P	Partnership Activities
Recruiting Release 1	Address Canvassing, Coverage Measurement – Independent Listing, and Initial Housing Unit Followup Recruiting
Recruiting Release 2	Field Enumeration, Coverage Measurement – Person Interview, Person Followup, and Final Housing Unit Followup Recruiting
Training Release 1	Address Canvassing Training
Training Release 2	Field Enumeration Training
Coverage Measurement Sample Release	Initial Sample for Coverage Measurement

Census/Survey Engineering

Table 3: 2020 SE&I Release Functionality Key

2020 Release	Functionality
Release 1	Recruiting for all positions Selection/Hiring/Training of Recruiting Assistants (RAs), Partnership Specialists, Office Operations Supervisors (OOSs) and Clerks
Release 2	2018 Mapping [Release RR1, TR1, A, RR2, Post-Enumeration Survey Sample] Address Canvassing selection of Census Field Supervisors, Enumerators and Listers PES Sample Release: Initial Sample for PES Address Canvassing Training In-Field Address Canvassing Peak Operation Recruiting
Release 3	2018 Mapping [Release TR2, P, B,C,D,K,L] Advertising and Earned Media HU Count Review Peak Operation Training (includes UL/GQ/UE/NRFU) Post-Enumeration Survey- Independent Listing Training Post-Enumeration Survey - Independent Listing GQ Workload and Advanced Contact/CQA Training/Printing and Mailing Workload Remote Alaska Island Areas Censuses Enumeration at Transitory Locations Self-Response (includes Mailing/Self-Response/CQA /Coverage Improvement) Peak Operations (includes UL/UE/GQ/SBE/Early NRFU/NRFU) Post-Enumeration Survey-Person Interview Post-Enumeration Survey-Initial Housing Unit Followup Post-Enumeration Survey – Person Interview Matching (E-Sample ID, Computer Matching, BFU Clerical Matching)
Release 4	2018 Mapping [Release E, M,N,O] Tabulation/Dissemination Archiving Federally Affiliated Count Overseas Redistricting Data Post-Enumeration Survey - Person Followup Count Question Resolution Post-Enumeration Survey - Final Housing Unit Followup Post-Enumeration Survey - Reports and Release Findings

Summary of Activities (Last 30 Days)

Systems Engineering and Integration (SE&I)

Completed the 2020 System Requirements Review #3 (SRR#3) on October 5, 2017. In SRR#3, the Decennial Census Management Division (DCMD) presented the business requirements for 2020 Census peak operations plus Local Update of Census Addresses (LUCA) and Geographic Programs.

Content and Forms Design

Continued gathering requirements for 2020 Census questionnaires and nonquestionnaire materials from the following operations: Internet Self-Response, Group Quarters, Nonresponse Followup, Update Leave, Enumeration at Transitory Locations, Update Enumerate, Federally Affiliated Count Overseas, Maritime Vessel Enumeration, Address Canvassing, and Island Areas Censuses.

Census/Survey Engineering

Summary of Activities (Last 30 Days) cont'd

Security, Privacy, and Confidentiality

1. Attended the Decennial Census Management Division lockups to support 2020 Security, Privacy, and Confidentiality (SPC) schedule integration.
2. Continued work with LUCA to address reviewers' questions on the IT Security Evaluation Questionnaire.

Look Ahead (Next 60 Days)

Systems Engineering and Integration (SE&I)

Hold Critical Design Review #3 (CDR #3) on November 2, 2017. The Island Areas Censuses mini-CDR has been folded into CDR #3.

Security, Privacy, and Confidentiality

Work with the Policy Coordination Office to develop a checklist that helps program areas depict what should be updated in the privacy threshold analysis when a major change occurs to a system.

Content and Forms Design

Create draft 2020 Census questionnaires and nonquestionnaire materials for internal stakeholder review.

Language Services

Begin translations of draft 2020 Census questionnaires and nonquestionnaire materials.

Frame

Description

Three operations support the frame area of the 2020 Census: Geographic Programs; Local Update of Census Addresses (LUCA); and Address Canvassing. For the description of these operations, please see Appendix A.

Summary of Activities (Last 30 Days)

Geographic Programs

1. Continued Participant Statistical Area Program (PSAP) internal review processing at the National Processing Center.
2. Continued Geographic Partnership Support Desk (GPSD) operations to support incoming calls. There were 488 calls received in October; of that number, 474 concerned the LUCA and the remainder, the Boundary and Annexation Survey.
3. Continued to process and update military and National Park special land use areas.
4. Began the Basic Collection Unit (BCU) Interactive Review at Census Bureau headquarters.

Local Update of Census Addresses

The LUCA Integrated Project Team's (IPT) LUCA Promotional Outreach events continued. A total of 668 promotional presentations have been completed as of October 30, 2017, and another 49 promotional events are scheduled in November 2017. Started scheduling technical trainings workshops for partners who have agreed to participate in LUCA. A total of 48 technical training workshops have been scheduled for November and December. Completed printing and shipping of LUCA Invitation Reminder packages on October 9, 2017, to tribal, state, and local governmental entities. Within the invitation Reminder packages are the registration forms and security guideline forms which the governmental entities will need to return before they can participate in the LUCA address review. As of October 30, 2017, the Census Bureau had received 12,115 responses from the 39,332 unique governments that are eligible to participate and therefore received invitations. Of those, 6,182 had signed up to participate in the LUCA Operation and 5,933 had declined. Governments typically decline due to insufficient staff, because another level of government is participating, or because they are too busy. To date, 6,513 have registered to participate in the LUCA Operation, covering 60.3 percent of the total population and 60.4 percent of the housing units with at least one LUCA participant.

Address Canvassing

The 2020 Census In-Office Address Canvassing Interactive Review (IR) production continues, and is meeting the expected production goals. The clerks have reviewed 11,155,278 blocks during Interactive Review from the beginning of production in September 2015 through October 31, 2017. They have completed 100 percent of the 11,155,485 total blocks nationally through the **first pass** in Interactive Review. Going forward, blocks will continue to be triggered back in for review as needed. Forty-two staff are working Interactive Review (IR) in production, and 18 are performing Quality Control (QC). This process classifies the blocks into three categories:

- Passive = blocks that do not show signs of change and need no further review at this time.
- Active = blocks that show signs of change and need to move to the next phase of In-Office Address Canvassing for further review.

Frame

Summary of Activities (Last 30 Days) cont'd

Address Canvassing cont'd

- On Hold = blocks that need new imagery to do the Interactive Review.

As of October 31, 2017, 60.7 percent of the blocks were classified as Passive, 28.9 percent were classified as Active, and 8.4 percent were classified as On-Hold. As of October 31, 2017, 157,908 blocks have been triggered for IR re-review. Triggered blocks which are still being worked through IR will be included in the "Total Blocks Reviewed" number above, but not be included in any of the Totals (Active, Passive, Hold) until they are re-reviewed. The triggered blocks accounted for 2.0 percent of the total completed. Blocks may remain in "On Hold" status for review at a later date due to "future growth" (for instance, there are signs that construction will be taking place but the houses are not built) or "imagery issues" (for instance, cloud cover obscures views of the structures).

The 2020 Census In-Office Address Canvassing Ungeocoded Resolution production began in April 2017 and continues. Ungeocoded Resolution is a component of In-Office Address Canvassing that investigates the records that were not resolved from the automated Delivery Sequence File update and matching process, and attempts to assign block codes by reviewing local source data available in-house as well as online.

Ungeocoded Resolution has three stages:

- Production - Production staff work the ungeocoded records.
- Quality Control (QC) - QC staff review the production work.
- Monitoring - Monitoring staff review the QC staff's work, which is a final review to determine what records have been geocoded (resolved) and which have been referred (on hold). Referred records will remain on hold until a later date.

As of October 31, 2017, staff have geocoded 383,256 address records out of the universe of 2,800,896 ungeocoded address records.

1. Participated in a 2020 Census schedule integration session, specific to 2020 Address Canvassing schedule development, on October 3, 2017.
2. Participated in a Training Release 1/Release A/Recruiting Release 2 lessons learned session between system and operation areas, related to Address Canvassing on October 4, 2017.

Look Ahead (Next 60 Days)

Local Update of Census Addresses

1. Continue to conduct LUCA Promotional Workshops. These workshops are conducted by Census Bureau staff to potential LUCA participants, including representatives from tribal, state, and local governments. There are 45 workshops scheduled for November 2017.
2. Complete and finalize address count list Software Requirement Specifications (SRS) for LUCA. This entails completing the requirements to develop the software that will generate the address count lists for LUCA blocks. The list will show the number of addresses per block for participants to use during their LUCA review.

Frame

Look Ahead (Next 60 Days) cont'd

Local Update of Census Addresses (LUCA) cont'd

3. Complete and finalize Geographic Support System matching and Master Address File/Topologically Integrated Geographic Encoding and Referencing (MAF/TIGER) System matching SRS for LUCA. This entails completing the requirements needed to develop the address matching rules for comparing the MAF to what participants submit as their LUCA review. This is done to validate the submissions.
4. Complete entering information from LUCA Invitation forms received from tribal, state, and local governments into the LUCA Production Control System.
5. Complete the review and finalize the letters and forms needed for the LUCA Review Packages that will be sent to LUCA participants starting in February 2018.

United States Postal Service (USPS) Coordination Team

1. Coordinate a November 2017 meeting with the working group chairs and the coordination team. The meeting represents the quarterly meeting of the leads for each of the five active USPS-Census Bureau Working Groups. Each Working Group is led by a USPS and Census Bureau co-chair and are gathered together to provide program-wide updates and establish common goals and practices.
2. Finalize an Interface Control Document that defines requirements for an automated process to track the status of census questionnaires mailed with Intelligent Mail® Barcode technology by November 17, 2017.

Response Data

Description

Thirteen operations support the response data area of the 2020 Census: Forms Printing and Distribution; Paper Data Capture; Integrated Partnership and Communications; Internet Self-Response; Non-ID Processing; Update Enumerate; Update Leave; Group Quarters; Enumeration at Transitory Locations; Census Questionnaire Assistance; Nonresponse Followup; Response Processing; and Federally Affiliated Count Overseas. For the description of these operations, please see Appendix A.

Summary of Activities (Last 30 Days)

Paper Data Capture (PDC)

1. Participated in 2020 Census Production Schedule Lock Up/Integration meeting for PDC on October 4, 2017.
2. Participated in System Readiness Review (SRR) 3 on October 5, 2017. The presentation was well received; no action items were assigned.

Integrated Partnership and Communications (IPC) Program

1. The Integrated Communication Contractor (Team Young & Rubicam [Y&R]) delivered the final English language questionnaire for the Census Barriers, Attitudes, and Motivators Study (CBAMS) survey based on final comments from the Census Bureau on October 9, 2017, and the Spanish language questionnaire on October 13, 2017.
2. Team Y&R delivered the Rapid Response Roadmap to the Census Bureau on October 11, 2017.
3. The Program Management and Planning contract order ended on October 23, 2017, and the Research contract order ended on October 31, 2017. These are the next steps as they permit the Integrated Partnership and Communications Program to plan for the next year of contract work. An updated Program Management and Planning contract order began on October 24, 2017. The Research contract order was extended through a contract modification until November 30, 2017.
4. Released Version 1 of the 2020 Integrated Communications Plan to the public on October 27, 2017.

Nonresponse Followup (NRFU)

1. Presented at the 2020 Census SRR held on October 5, 2017.
2. Held Integrated Master Schedule integration sessions and developed the draft 2020 Schedule for the NRFU operation.
3. Submitted specifications for workload creation, administrative records modelling, NRFU mail out, contact strategies, field operational control, quality control, and data types (NRFU Compiled Specification) to system stakeholders for review on October 30, 2017.

Census Questionnaire Assistance (CQA)

1. Completed drafting Version 2 of the CQA Detailed Operational Plan on October 12, 2017.
2. Participated in scheduling sessions to integrate the draft CQA schedule with the 2020 Census Integrated Master Schedule on October 6, 2017.

Response Data

Summary of Activities (Last 30 Days) Cont'd

Coverage Improvement (CI)

Developed 2020 schedule for Coverage Improvement to be integrated into the 2020 Census Integrated Master Schedule.

Update Leave (UL)

Participated in an integration session for UL with the scheduling branch and other decennial operations on October 10, 2017.

Update Enumerate (UE)

1. Presented at the 2020 Census System Readiness Review on October 5, 2017.
2. Participated in an integration session for UE with the scheduling branch and other decennial operations on October 10, 2017.
3. Submitted a change request on October 26, 2017, to update the baselined capability requirements. The change request includes modifications based on feedback from systems.

Group Quarters (GQ)

1. Conducted 2020 GQ Integrated Master Schedule integration session with other decennial operations in producing the 2020 GQ Advance Contact, GQ Enumeration (including Service-Based Enumeration), Maritime Vessels Enumeration, and Military Enumeration schedules on October 11, 2017.
2. Delivered 2020 GQ operations requirements to the Decennial Contracts and Execution Office (DCEO) and the Chief Technology Office on October 13, 2017.

Enumeration at Transitory Locations (ETL)

1. Worked with Geography Division to evaluate solutions for maps and geocoding for ETL enumerations.
2. Submitted updated capability requirements and Business Process Model to the 2020 Census Technology Officer for the assignment of requirements to system providers.
3. Submitted forms requirements to Content and Forms Design for stateside and Puerto Rico.
4. Conducted 2020 ETL Integrated Master Schedule integration session with other decennial operations on October 20, 2017.

Federally Affiliated Count Overseas (FACO)

Participated in the 2020 Census Integrated Master Schedule session to link FACO project activities to external dependencies in the 2020 Census Integrated Master Schedule.

Look Ahead (Next 60 Days)

Integrated Partnership and Communications (IPC)

The new updated research contract order for fiscal year 2018, which will cover the scope of the work planned for the next year, is scheduled to begin on December 1, 2017.

Response Data

Look Ahead (Next 60 Days) Cont'd

Paper Data Capture

1. Review and comment on Technical Integrator (TI) deliverables related to the 2020 Census.
2. Participate in the Test Readiness Review (TRR) 2 for Release C on November 17, 2017.

Non-ID Processing

1. Complete the development of the 2020 Non-ID project operational schedule to support the overall effort to produce a baselined 2020 Census Integrated Master Schedule in November.
2. Begin work on revision of Detailed Operational Plan in preparation for re-release in March 2018.

Update Leave (UL)

1. Finalize the 2020 Census Integrated Master Schedule for the operation.
2. Deliver the final version of the UL Detailed Operational Plan for approval and release.
3. Prepare and present update on the current status of the UL operation to the 2020 Census Portfolio Management Governing Board (PMGB) on November 15, 2017.

Update Enumerate (UE)

1. Finalize the 2020 Census Integrated Master Schedule for the operation.
2. Complete the initial draft of the 2020 UE Detailed Operational Plan.
3. Provide the initial draft of requirements for the enumerator questionnaire to Content and Forms Design.
4. Prepare and present update on the current status of the UE operation to the 2020 Census PMGB on November 15, 2017.

Group Quarters (GQ)

1. Deliver 2020 GQ Integrated Master Schedule.
2. Submit proposed 2020 GQ paper forms requirements to Content and Forms Design.

Federally Affiliated Count Overseas (FACO)

1. Provide updates to Content and Forms Design for the Federal agency contact letters.
2. Provide application development requirements for the automated data collection solution.

Nonresponse Followup (NRFU)

1. Baseline the 2020 Census NRFU Detailed Operational Plan.
2. Baseline the 2020 Census Integrated Master Schedule for the NRFU operation.
3. Obtain acceptance of all capability requirements that support the NRFU operation. This is an output of the System Requirements Review (SRR) on October 5, 2017, and Critical Design Review (CDR) on November 2, 2017.

Publish Data

Description

Five operations support the publish data area of the 2020 Census: Data Products and Dissemination; Redistricting Data Program; Count Review; Count Question Resolution; and Archiving. For a description of these operations, please see Appendix A. These operations are active as we prepare for the 2018 End-to-End Census Test.

Summary of Activities (Last 30 Days)

Redistricting Data Program (RDP)

1. Invited official liaisons to participate in Phase 2, the Voting District Project, of the Redistricting Data Program and informed legislative leadership of that invitation.
2. Submitted for Census Bureau Director's signature and publication in the Federal Register, as part of Phase 3 – Data Delivery of the RDP, the proposed design for the 2020 Census P.L. 94-171 Redistricting Data File to be produced as a prototype product from the 2018 End-to-End Census Test, on October 27, 2017.

Count Question Resolution (CQR)

1. Developed draft Business Process Models (BPMs) and requirements.
2. Integrated draft schedule of CQR activities into the 2020 Census Integrated Master Schedule.
3. Developed CQR 2020 risk register and identified potential 2020 Census risks.

Look Ahead (Next 60 Days)

Data Products and Dissemination (DPD)

1. Conduct a webinar on November 1, 2017, with the Data Products Redesign Group (DPRG). This two-hour virtual session will provide detailed input from the DPRG about Decennial products — especially the use and value of the 2010 Census Summary File 1 (SF1) block data. SF1 is the first of three significant Decennial Census data dissemination products. In July 2017, the scope of the DPRG advisory group expanded to include 2020 Census data products. Therefore, discussion for the other products will continue at subsequent advisory group sessions.
2. Assess feedback from DPRG webinar and determine next steps.
3. Conduct Joint Application Design (JAD) session in preparation for Systems Requirement Review (SRR) 4.

Redistricting Data Program

1. Solicit from the States any boundary changes to the congressional and state legislative districts planned for the 116th Congress and 2018 state legislative elections.
2. Finalize participant guides and software for Phase 2, the Voting District Project, of the 2020 Census Redistricting Data Program.

Archiving (ARC)

Conduct annual review of the 2020 Census Records Schedule with all other Integrated Project Teams beginning in November 2017.

Other Censuses

Description

The purpose of the Island Areas Censuses (IAC) operation is to enumerate all residents of American Samoa, the Commonwealth of the Northern Mariana Islands, Guam, and the U.S. Virgin Islands; process and tabulate the collected data; and disseminate data products to the public.

Summary of Activities (Last 30 Days)

Island Area Censuses

Conducted quarterly teleconferences with liaisons of American Samoa, Commonwealth of Mariana Islands, Guam, and U.S. Virgin Islands on preparations for the 2020 Island Areas Censuses October 17-19, 2017.

Test and Evaluation

Description

Four operations support the Test and Evaluation area of the 2020 Census: Coverage Measurement Design and Estimation; Coverage Measurement Matching; Coverage Measurement Field Operations; and Evaluations and Experiments. For the description of these operations, please see Appendix A.

Summary of Activities (Last 30 Days)

The Coverage Measurement Design and Estimation (CMDE) Integrated Project Team:

1. Completed updating the Post-Enumeration Survey (PES) Design and Estimation Business Process Model (BPM) and capability requirements for the sampling operations.
2. Submitted the Coverage Measurement (CM) Sampling BPM and capability requirements to the solution architecture team for solution allocation.
3. Completed the final round of reviews of high-level design requirements for Initial Housing Unit Matching and Followup, Person Interview and Reinterview and Final Housing Unit Matching and Followup.
4. Completed Integrated Project Team reviews of high-level design requirements for Person Followup and Matching.
5. Released the preliminary results of the Nonresponse Adjustment Study Plan to the Estimation sub-team.
6. Participated in a lockup integration session to integrate the CMDE schedule with other operational schedules into the 2020 Census Integrated Master Schedule.
7. Presented a recommendation to the Decennial Research Objectives and Methods (DROM) working group that the PES not disseminate county and place estimates.

The Coverage Measurement Field Operations and Matching Integrated Project Team:

1. Participated in a lockup integration session to integrate the Coverage Measurement Field Operations (CMFO) and Coverage Measurement Matching (CMM) 2020 Census Schedules.
2. Submitted PES Field Operations and Matching BPMs and capability requirements for solution allocations.

The Evaluations and Experiments team:

After review of 2020 Census evaluation and experiment proposals, the DROM working group prepared a response to authors and instructions for developing “round two” proposals. Following review and selection of round two proposals by the DROM, their recommended evaluations and experiments will go to the 2020 Census Portfolio Management Governing Board (PMGB), and following that review, will go to the 2020 Census Executive Steering Committee for ultimate decisions as to the scope of the research program.

Look Ahead (Next 60 Days)

The Coverage Measurement Design and Estimation Integrated Project Team will work on the following activities:

1. Baseline the PES Design and Estimation BPM and capability requirements.
2. Participate in a Joint Application Development (JAD) session with Systems Engineering and Implementation to finalize 2020 Census Capability and Non-Functional Requirements.
3. Baseline the CMDE 2020 Census schedules.

Test and Evaluation

Look Ahead (Next 60 Days) Cont'd

The Coverage Measurement Design and Estimation Integrated Project Team cont'd

4. Revise draft of the E-Sample Imputation Study Plan.
5. Present the Noninterview Adjustment Study Plan to the 2020 Census Portfolio Management Governing Board.
6. Review risks in the Coverage Measurement Design and Estimation 2020 Census Project Risk Register.
7. Review decisions in the 2020 Census decision inventory.
8. Document PES high-level design requirements for sampling.

Coverage Measurement Field Operations and Matching Integrated Project Team will work on the following activities:

1. Baseline the CMFO and CMM 2020 Census schedules.
2. Baseline the PES Field Operations and Matching BPMs and capability requirements.
3. Participate in a JAD session with Systems Engineering and Implementation to finalize 2020 Census Capability and Non-Functional Requirements.
4. Review risks in the 2020 Coverage Measurement Field Operations and Coverage Measurement Matching 2020 Census Project Risk Registers.
5. Document PES high-level design requirements for field data collection and matching operations.
6. Review decisions in the 2020 Census decision inventory.
7. Participate in a JAD session with Systems Engineering and Implementation to finalize 2020 Census Capability and Non-Functional Requirements.
8. Work with the Coverage Measurement Design and Estimation Integrated Project Team to document high-level design requirements.
9. Review the cost estimates from the Associate Director for Demographic Programs for supporting the PES Field data collection operation and make a recommendation.

Infrastructure

Description

Four operations support the infrastructure area of the 2020 Census: Decennial Service Center; Recruiting, Training and Onboarding; Decennial Logistics Management; and Information Technology (IT) Infrastructure. For the description of these operations, please see Appendix A.

Summary of Activities (Last 30 Days)

Decennial Service Center

Began drafting the Detailed Operational Plan.

Recruiting, Training, and Onboarding

1. Finalized the 2020 Census Integrated Master Schedule for the Recruiting, Hiring and Selection, Training, Census Hiring and Employment Check (CHEC), and Contracts and Budget operation.
2. Delivered the draft version of the Field Infrastructure (FLDI) Detailed Operational Plan for approval and release.

Decennial Logistics Management

Began moving forward with the acquisition of the Wave 2 Area Census Offices (ACOs) on October 11, 2017.

Look Ahead (Next 60 Days)

Decennial Service Center

Participate in the 2020 Census Integrated Master Schedule integration sessions to integrate the 2020 Census Decennial Service Center schedule.

Recruiting, Training, and Onboarding

Award Third-Party Vendor Fingerprinting contract in November.

Decennial Logistics Management

Provide draft 2020 Census Continuity of Operations (COOP)/Disaster Recovery Plans to Decennial Census Management Division management. The plans will cover Regional Census Center and Area Census Office mission critical activities.

Additional Updates

Census Enterprise Data Collection and Processing (CEDCaP)

Description

The Census Enterprise Data Collection and Processing (CEDCaP) major transformation initiative continues efforts to streamline how the Census Bureau will collect and process data across all its censuses and surveys. In the past, the Census Bureau created and used a new, unique system for every survey and census it conducted. CEDCaP creates an enterprise-wide approach to building data capabilities for the 2020 Census while taking into consideration the challenges of data collection and cost of development.

Summary of Activities (Last 30 Days)

2018 End-to-End (E2E) Test (Decennial) (CEDCaP Product Release 8)

1. Delivered production capabilities for Training Release 2 (Field Enumeration). Systems in this release include Enterprise Censuses and Surveys Enabling Field Operational Control System (ECaSE FOCS), ECaSE Enumeration (Enum), Listing and Mapping Application/Mobile Case Management (LiMA/MCM) and Service Oriented Architecture (SOA).
2. Continued iterative development and testing for CEDCaP Capabilities for Release C Self Response (Test Readiness Review {TRR} 2 on November 17, 2017) and Release D Field Enumeration (TRR 1 on December 6, 2017).
3. Supported joint Decennial and CEDCaP Systems Requirement Review.

2020 Census (Decennial) (CEDCaP Product Release 9)

1. Supported joint Decennial schedule development.
2. Received approval from the 2020 Census PMGB for the baselining of the CEDCaP 2020 Census vision/scope documentation, including the specifications tracker list.

Program-Level

1. Completed Program Increment 22 and conducted the Program Increment 23 Planning session. The 40-day CEDCaP Release Train provides an agile framework to planning and delivering commitments for CEDCaP systems. The Release Train originally coordinated delivery of CEDCaP systems for different customers. With CEDCaP's focus on the 2020 Census, the Release Train now includes delivery of non-CEDCaP systems for the 2020 Census and is jointly conducted with the 2020 Census Program.
2. Released CEDCaP Transition Plan 5.0 and Architecture to reflect updates needed to CEDCaP architecture/timeline for the 2020 Census and that the current surveys transition occurs after delivery for the 2020 Census.

Look Ahead (Next 60 Days)

2018 End-to-End (E2E) Test (Decennial) (CEDCaP Product Release 8)

1. Support joint Decennial and CEDCaP reviews.
2. Deliver capabilities for Test Readiness Review (TRR 2) for Release C Self Response (TRR on November 17, 2017). Systems in this release include ECaSE –Operational Control System (OCS) (Survey), ECaSE – Internet Self-Response (ISR), Control and Response Data System (CaRDS), Integrated Computer-Assisted Data Entry System (iCADE) and SOA.

Census Enterprise Data Collection and Processing (CEDCaP)

Look Ahead (Next 60 Days) cont'd

2018 End-to-End (E2E) Test (Decennial) (CEDCaP Product Release 8) cont'd

3. Deliver capabilities for Test Readiness Review (TRR 1) for Release D Field Enumeration (TRR on December 6, 2017). Systems in this release include ECaSE –OCS (Survey and Field), ECaSE - Enum, Concurrent Analysis and Estimation System (CAES), LiMA/MCM, MOJO, iCADE and SOA.

2020 Census (Decennial) (CEDCaP Product Release 9)

1. Support joint Decennial and CEDCaP schedule development.
2. Participate in Critical Design Review #3.

Program-Level

Complete Program Increment 23 for the CEDCaP/2020 Census Release Train and conduct the Program Increment 24 Planning session.

Oversight & Stakeholder Engagement

Description

This section describes major activities related to Government Accountability Office (GAO) and Office of the Inspector General (OIG) audits (e.g., new audits, exit meetings for completed audits, issuance of draft and final reports, preparation of agency action plans); congressional hearings related to the 2020 Census; and presentations and working meetings with Census Bureau advisory committees, the 2020 Census National Academy of Sciences Standing Committee on Reengineering Census Operations, and other external stakeholders.

Summary of Activities (Last 30 Days)

1. Participated in the United Nations Economic Commission for Europe, Conference of European Statisticians, in Geneva, Switzerland, October 2 – 6, 2017.
2. Held quarterly meeting on October 4, 2017, with GAO to discuss Open Recommendations, Strategies and Priorities.
3. Released on October 6, 2017, final reports on 2020 Census tribal consultations with the following groups: State-Recognized Tribes, Federally Recognized Tribes, Oklahoma Tribes, and the Navajo Nation, respectively.
4. Participated in the Population Association of America's Committee on Population Statistics, October 12 – 13, 2017.
5. Participated in the Alaska Federation of Natives 2017 Annual Convention in Anchorage, Alaska, October 19 – 21, 2017.
6. Held quarterly 2020 Census Program Management Review on October 27, 2017.
7. Presented an overview of the Census Bureau translation services at the American Translators Association Annual Conference on October 28, 2017.
8. Participated in the Population Association of America's Hill Briefing on October 30, 2017.
9. Continued working actively to close open recommendations from GAO and OIG.
10. GAO currently has three audits in progress related to the 2020 Census:
 - Continues to audit the 2020 Census Schedule. Issue(s) under review include: 1. To what extent has the Census Bureau improved its use of best practices for scheduling key projects? 2. To what extent have key decisions reflected in the Census Bureau's 2020 Census Integrated Master Schedule (IMS) been made on schedule?
 - Continues to audit the Census Bureau's Address Canvassing operations for the 2018 End-to-End Census Test in response to a request made by Chair and Ranking Member of the House Oversight and Government Reform Committee and the Chair and Ranking Minority Member of the Senate Homeland Security and Governmental Affairs Committee. Issue(s) under review include: 1. What are the plans for the 2018 address canvassing test, and was the test conducted according to those plans? 2. To what extent did the technology and operational components perform, and what opportunities were identified that the Census Bureau can build on for the 2020 Census?
 - Continues to audit the Census Bureau's readiness for the 2018 End-to-End Census Test, evaluate the extent to which the Census Bureau has backup plans to ensure the successful implementation of key IT capabilities needed for the 2020 Census, and determine the extent to which the Census Bureau has effectively planned and implemented information securing protections in preparation for the 2018 End-to-End Census Test and ultimately the 2020 Census.

Oversight & Stakeholder Engagement

Summary of Activities (Last 30 Days) cont'd

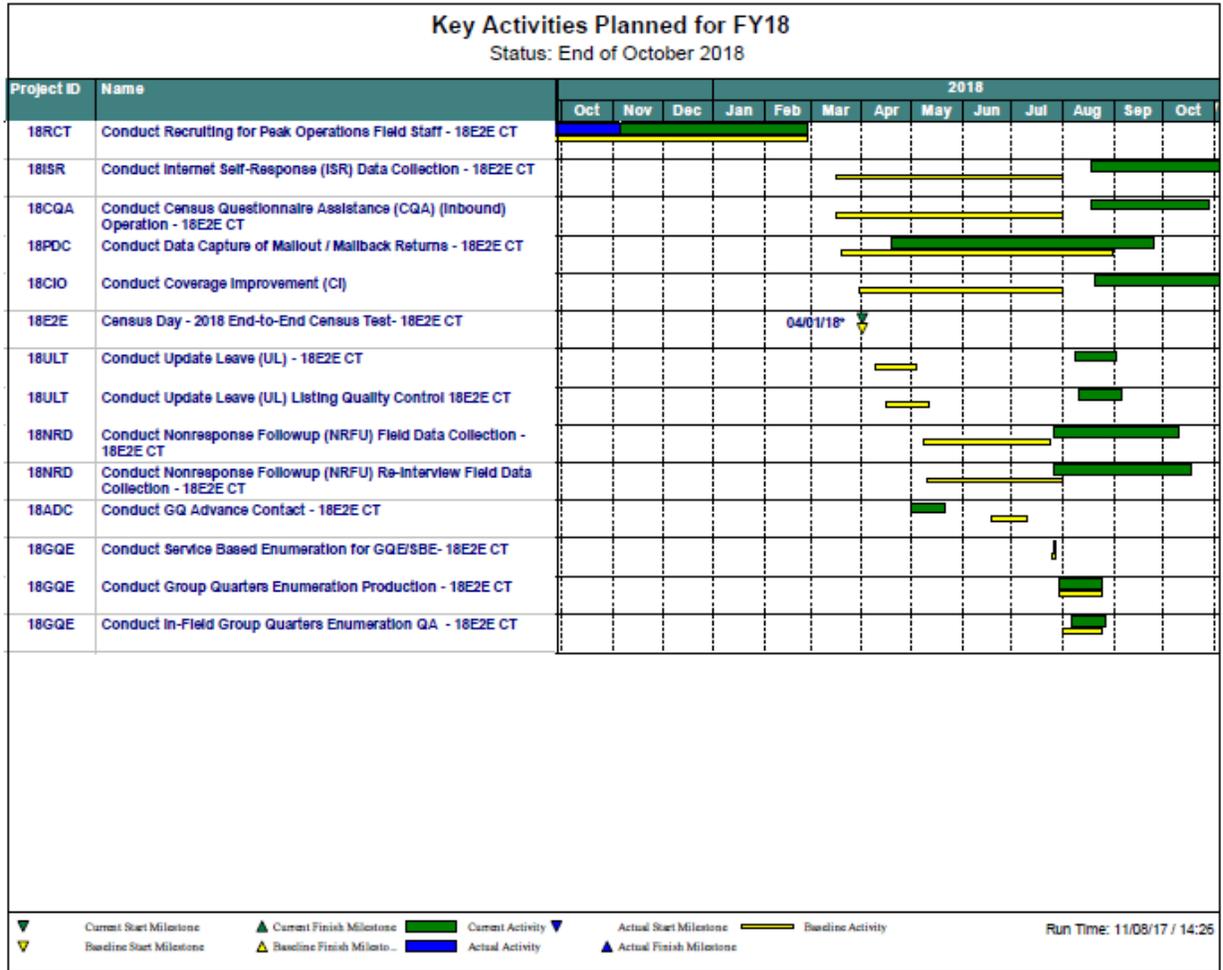
11. OIG currently has three audits in progress related to the 2020 Census:

- Continues to audit the Census Bureau's internal policies and procedures for conducting background checks on temporary employees, and to determine whether the Census Bureau has an effective plan in place to conduct background checks for temporary employees who will be hired during the 2020 Census tests and decennial field operations.
- Continues to audit Area Census Office (ACO) locations, the decision process for determining the number and location of ACOs for the 2020 Census, and the involvement of the General Services Administration.
- Continues to audit the Census Bureau's Address Canvassing operations for the 2018 End-to-End Census Test. The audit is focusing on two areas: 1) assessing the performance of address canvassing field operations and 2) determining whether in-office address canvassing correctly identified blocks for in-field address canvassing.

Look Ahead (Next 60 Days)

1. Present and participate in the National Advisory Committee fall meeting, November 2 – 3, 2017.
2. Deliver action plan in response to the OIG final report: *2016 Address Canvassing Test: Interactive Address Canvassing Operations Review* by November 9, 2017.
3. Present at the Transportation Research Board's Applying Census Data for Transportation Conference in Kansas City, Missouri, November 14, 2017.
4. Present at the Community Indicators Consortium Conference in St. Petersburg, Florida, November 17, 2017.

Program Schedule Metrics Research & Testing



Explanations for Project Start/Finish Delays

Activity 18ISR-12170: "Conduct Internet Self-Response (ISR) Data Collection - 18E2E CT"
Reason for Delay: Conduct ISR is expected to be on time. Delay is being driven by 18MTS-15320; however this activity is pending a forthcoming Change Request (CR); subsequent driver is Systems Engineering and Integration (SE&I) Test Readiness Review (TRR) 2.

Activity 18CQA-10920: "Conduct Census Questionnaire Assistance (CQA) (Inbound) Operation- 18E2E CT"
Reason for Delay: MAF/TIGER Systems (MTS) is currently delaying this activity's start; however, several MTS activities within the chain are marked with a forthcoming CR. Subsequently 18SEI-10150 "TRR2 for Self Response - Release C" becomes the driving factor.

Activity 18PDC-10120: "Conduct Data Capture of Mailout / Mailback Returns- 18E2E CT"
Reason for Delay: Activity expected to begin March 16, 2018 with Forms Printing and Distribution Mailouts. This operation will end on August 31, 2018, per Paper Data Capture.

Activity 18CIO-12500: "Conduct Coverage Improvement (CI)"
Reason for Delay: Driven by Predecessor 18ISR-12170 (Start-Start).

Activity 18ULT-20430: "Conduct Update Leave (UL)- 18E2E CT"
Reason for Delay: Driven by 18MTS-16590, which is to be deleted via a forthcoming CR.

Activity 18ULT-20480: "Conduct Update Leave (UL) Listing Quality Control - 18E2E CT"

Explanations for Project Start/Finish Delays cont'd

Reason for Delay: Driven by 18MTS-16590, which is to be deleted via a forthcoming CR.

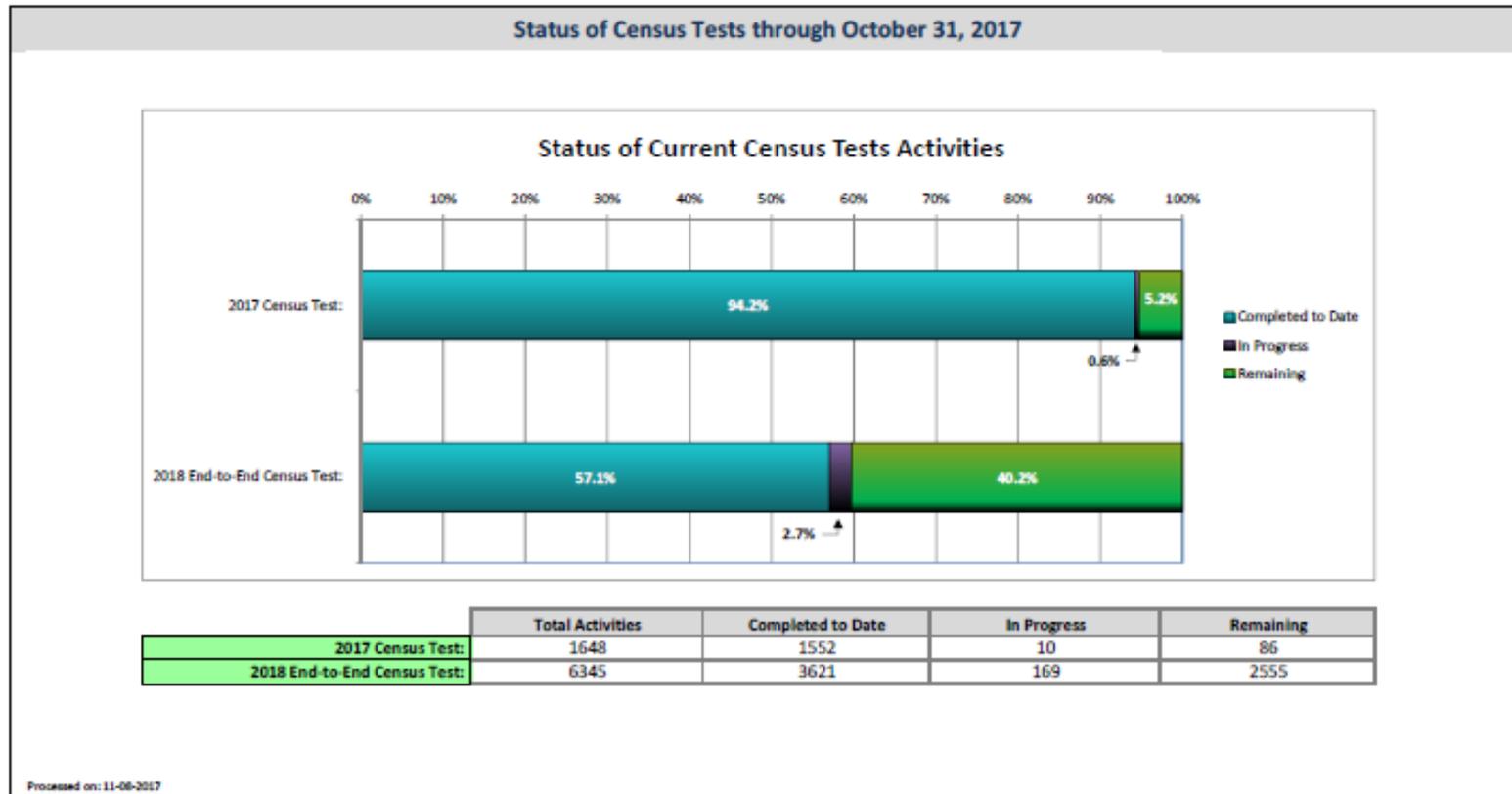
Activity 18NRD-10190: "Conduct Nonresponse Followup (NRFU) Field Data Collection- 18E2E CT"

Reason for Delay: This activity is being driven by: 18MTS-16550 Create Software Requirements Specification for Address Update (Address Canvassing Address Update File [ADDUP], Structure Coordinate Update File [STRUCT]) for NRFU - 18E2E CT which has the following note: September 21, 2017 - Delete - CR forthcoming. the active path.

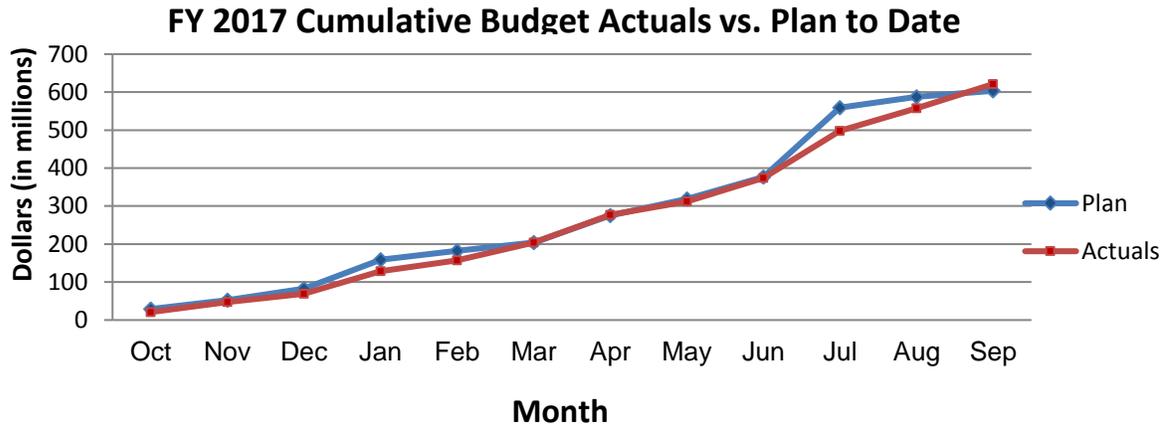
Activity 18NRD-11030: "Conduct Nonresponse Followup (NRFU) Re-Interview Field Data Collection - 18E2E CT"

Reason for Delay: This activity is being driven by: 18MTS-16550 Create Software Requirements Specification for Address Update (ADDUP, STRUCT) for NRFU - 18E2E CT which has the following note: September 21, 2017 - Delete -CR forthcoming.

Program Schedule Metrics Research & Testing



Program Budget/Costs as of September 30, 2017



	September Cum Plan	September Cum Actuals	September Cum Variance	% Variance
GRAND TOTAL	\$603,528,727	\$621,202,321	(\$17,673,594)	-2.9%

At the end of September, the **\$17.7M** variance in the 2020 Census program consisted of \$12.6M lower than expected costs in salaries and **\$30.3M** higher than expected costs in other objects. The salary variance is due to delays in filling vacancies at HQ/RCC, which is in part due to the Federal Government hiring freeze. The other objects variance does not reflect funding that was redirected to 2020 and executed against mission critical requirements. During the months of August and September, \$12.9M was transferred into the 2020 Program from the CS&P Program, \$962,449 from CEDCaP, and \$4,405,815 from the American Community Survey (ACS) Program. After accounting for the redirection of funds and overheads, the FY 2017 variance for the 2020 Program was 0.10%.

R1 Program Management	\$62,808,579	\$64,295,582	(\$1,487,003)	-2.4%
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The variance in this area consists of \$0.9M lower than expected costs in salaries and **\$2.4M** higher than expected costs in other objects. The salary variance is due to vacancies not being filled as quickly as originally anticipated. The other objects variance is due to program contracts being higher than originally planned and even after delaying work to FY 2018 to compensate, this variance could not be fully mitigated by the end of the fiscal year.

R2 Census/Survey Engineering	\$187,043,146	\$187,584,123	(\$540,977)	-0.3%
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The variance in this area consists of \$0.08M lower than expected costs in salaries and \$0.5M higher than expected costs in other objects. The salary variance is due to the Content and Forms Design and Language work requiring more time than initially planned. The other objects variance is due to 1) the Systems Engineering and Integration (SE&I) contract being executed late in the fiscal year from redirected funds within the 2020 program, and 2) authorized funding of the select security services contract to support the Census Decennial Program including the Dress Rehearsal, Decennial testing, Decennial operations, and subsequent close-out.

R3 Frame	\$61,936,798	\$54,002,573	\$7,934,225	12.8%
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The variance in this area consists of \$2.1M lower than expected costs in salaries and \$5.9M lower than expected costs in other objects. The salary variance is due to the MAF Coverage Study ending sooner than anticipated and the cancellation of the Active Block Resolution (ABR) activities resulting in a decrease to In Office Address Canvassing work. The majority of the other objects variance is due to the following: 1) the Geographic Support IT Services contract was split into two option periods making funding available for 2020 mission critical needs, 2) Geographic Support Services (GSS) program funded the Geographic Update Partnership System (GUPS) contract originally included in the 2020 Decennial program funding, and 3) changes in the scope of work delayed printing and postage for the Local Update of Census Addresses (LUCA) operations.

R4 Response Data	\$86,560,563	\$131,670,138	(\$45,109,575)	-52.1%
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The variance in this area consists of \$4.2M higher than expected costs in salaries and \$40.9M higher than expected costs in other objects. The IPC Operations and the Census Questionnaire Assistance (CQA) program funding did not cover the staffing levels. The other objects variance is due to the CQA Engineering and Technical Services contract costs for the 2018 End-to-End test being higher than anticipated and the early commitment of the Decennial Devices as a Service (dDAAS) contract which consists of the mobile device acquisition, logistics, provisioning, management, cellular network coverage, and decommissioning services needed to support the 2020 Decennial Census.

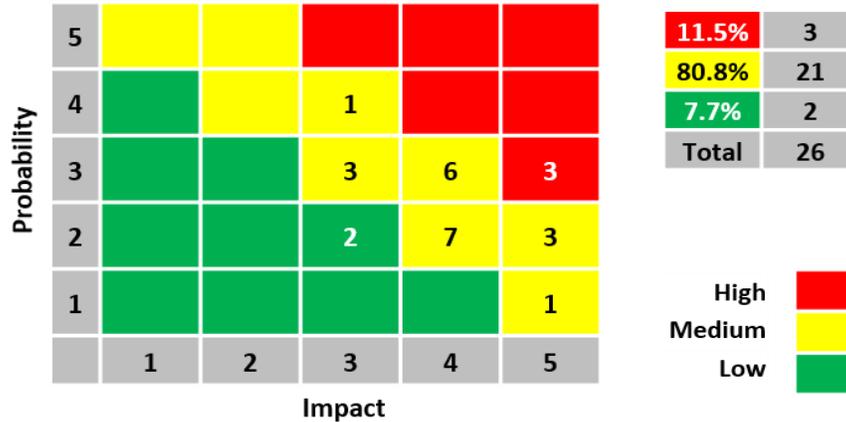
R5 Published Data	\$22,007,382	\$23,210,032	(\$1,202,650)	-5.5%
<p>The variance in this area consists of \$0.1M higher than expected costs in salaries and \$1.1M higher than expected costs in other objects. The salary variance is due to the Advertising Campaign requiring more time than initially planned. The other objects variance is due to authorized spending of the following contracts: 1) Aid in the enhancement of the existing ACS Tabulation System to transform it into the new ACS-Decennial Tabulation System, and 2) the Elastic Search contract that provides critical search/indexing support, researching the latest technology, and strategies to find information for both structured and unstructured content based on Census Dissemination System and Customer Innovation (CEDSCI) content metadata and the Geography repository.</p>				
R6 Test and Evaluation	\$39,926,850	\$36,587,489	\$3,339,361	8.4%
<p>The variance in this area consists of \$3.1M lower than expected costs in salaries and \$0.2M lower than expected costs in other objects. The salary variance is due to the following: 1) vacancies not being filled as quickly as originally anticipated and work began later than expected in National Processing Center (NPC) and the Telephone Center due to the change in the scope of work in the Test Planning, Project Management and Support project, and 2) Address Canvassing Test payroll charges were inadvertently charged to the prior year project instead of the current year project. The other objects variance is due to the Post Enumerations Survey being de-scoped from the 2018 End-to-End test.</p>				
R7 Infrastructure	\$143,245,409	\$123,852,384	\$19,393,025	13.5%
<p>The variance in this area consists of \$11.0M lower than expected costs in salaries and \$8.4M lower than expected costs in other objects. The salary variance is due to vacancies not being filled as quickly as originally anticipated. The other objects variance is due to the following: 1) Build-out for the Regional Census Centers (RCCs) did not occur due to change in program requirements, and 2) minimal spending in travel, training, and supplies.</p>				
Notes:				
1) Explanations are required for frameworks with variances that are equal to or greater than +/- 5% OR greater than +/- \$50k.				
2) We report budget variance data as currently as possible. When the Monthly Status Report is prepared, we have not yet received budget variance data from the current month, so data from the previous month is what we include.				

Program-Level Life Cycle Risks

	Risk ID	Name	Level	Prior Level	Trend	Prob	Imp
1	LC-033	Administrative Records and Third-Party Data - External Factors	H	H	↔	3	5
2	LC-039	Public Perception of Ability to Safeguard Response Data	H	H	↔	3	5
3	LC-041	Cybersecurity Incidents	H	H	↔	3	5
4	LC-045	Major Disasters	M	M	↓	4	3
5	LC-010	Enterprise IT Solutions	M	M	↔	3	4
6	LC-036	Operations and Systems Integration	M	M	↔	3	4
7	LC-038	Testing of Field Operations Quality Control Procedures	M	M	↔	3	4
8	LC-042	Late Operational Design Changes	M	M	↔	3	4
9	LC-046	Insufficient Levels of Staff with Subject Matter Skillsets	M	M	↔	3	4
10	LC-050	2020 Census Contract Support	M		NEW	3	4
11	LC-043	Cloud Implementation	M	M	↔	3	3
12	LC-044	Systems Scalability	M	M	↔	3	3
13	LC-047	Demand Model Accuracy	M	M	↔	3	3
14	LC-028	Internet Data Collection	M	M	↔	2	5
15	LC-034	Administrative Records and Third-Party Data - Access and Constraints	M	M	↔	2	5
16	LC-040	Funding Requests Not Realized	M	M	↔	2	5
17	LC-001	Cost Model Projections	M	M	↔	2	4
18	LC-012	External Support	M	M	↔	2	4
19	LC-021	Schedule Impacts	M	M	↔	2	4
20	LC-022	Technological Innovations Surfacing After Design is Finalized	M	M	↔	2	4
21	LC-027	IT Security Controls	M	M	↔	2	4
22	LC-048	Delays in Hiring Process for Temporary Field Staff	M		NEW	2	4
23	LC-049	Automated Design Elements Switching to Paper	M		NEW	2	4
24	LC-004	ACS Funding and Integration	M	M	↔	1	5
25	LC-016	Policy Impacts	L	L	↔	2	3
26	LC-023	Inconclusive Data	L	L	↔	2	3

Risk Trend
↑
Improving
↔
No Change
↓
Worsening

Program-Level Life Cycle Risks



The following changes were made since the September Monthly Status Report (MSR):

1. LC-045_Major Disasters: Probability rating was raised from 3 to 4 because it is likely that a major disaster, at least a natural one, will occur during the preparation and/or implementation stages of the 2020 Census. With major disasters factoring into the preparation stages for the 2020 Census, the Risk Review Board felt it was appropriate to raise the probability rating on the risk to reflect the chances that at least one major disaster is likely to occur close to or during the implementation phase due to the recent hurricanes (Harvey, Irma, and Maria) causing damage that affected the American Community Survey, field representatives, and other regional staff, as well as the respondents living in the affected areas.
2. LC-011_Acquisition Lead Time: The risk was closed because the timeframe passed and the majority of contracts supporting the 2020 Census have been awarded. Concerns regarding contract delays are now included in the new risk 2020 Census Contract Support.
3. LC-029_Contract Management: The risk was closed because with the Decennial Contracts Execution Office in place, acquisition procedures are being followed, including a review process to ensure all procurements are assisting the program meet its goals.
4. LC-048_Delays in Hiring of Temporary Field Staff: The risk was added because the hiring process, including background checks and fingerprinting, has been a time-consuming process for the census tests. On October 16, 2017, the Census Bureau's Human Resources Division (HRD) issued a memo documenting the decision to implement a "Fingerprint Only" security process for both the Census Field Supervisor (CFS) and Enumerator positions supporting the 2018 End-to-End Census Test and the 2020 Decennial Census. This decision was made by the Human Resources Division's Census Investigative Services (CIS), Office of General Council's Employment and Labor Law Division, and Industrial/Organizational psychologists.
5. LC-049_Automated Design Elements Switching to Paper: The risk was added because design elements for certain operations have already been changed from automated to paper solutions, and the integrated Computer Assisted Data Entry (iCADE) system that supports the Paper Data Capture (PDC) operation, nor the projects within PDC, have been tested only on a scale less than or equal to current surveys, which is far less than a decennial census.
6. LC-050_2020 Census Contract Support: The risk was added because protests have already occurred for some contracts. There are major contracts still to be awarded that may face

protests. Operations have had to perform workarounds or delay activities in order to finish their work on time.

7. The program issue titled “Additional Workload for the Address Canvassing Operation” (created from LC-032_Reengineering Address Canvassing Operation) remained open. Description: For the 2010 Census, a near-100 percent Address Canvassing operation in the field was used to update and validate a complete and accurate inventory of addresses, which forms the basis for the census enumeration. For the 2020 Census, a variety of “in-office” techniques are used to update and validate the completeness of the address inventory. These “in-office” techniques were expected to reduce the areas requiring field work while achieving an equal or greater quality result, thereby reducing costs and improving quality for the overall 2020 Census Program. The established threshold of addresses for update and validation through “in-office” techniques is 75 percent, with a plan to send about 25 percent of addresses for field canvassing, as cited in the 2020 Census Operational Plan and the Detailed Operational Plan for Address Canvassing. Due to significant issues with productivity and quality control, two major components of the reengineered Address Canvassing operation, known as Active Block Resolution (ABR) and the Master Address File Coverage Study (MAFCS) have been suspended for the remainder of FY2017. Active Block Resolution (ABR) uses a variety of sources to perform Master Address File (MAF) updates in areas of change identified by the Interactive Review (IR) process and provides high-quality frame information to the Address Canvassing Operation. The MAFCS was designed to 1) update the MAF on a continuous basis by field listing 20,000 blocks each year; 2) provide estimates of MAF coverage on a national and subnational basis; and 3) validate the In-Office Address Canvassing methodology.

Impact: The suspension of the ABR and MAFCS projects will result in an increased universe for field canvassing for 2020 Address Canvassing. The exact increase is unknown, but the suspension will almost certainly result in a field workload above the 25 percent threshold. This change will result in cost increases and increased potential for schedule adjustments associated with the additional field listing. In-Field Address Canvassing will need to scale up its listing operations by January 1, 2019 when field offices are scheduled to open. This change also has the potential to affect quality control (QC) work, as the scale and nature of sampling are likely to be affected. The pause in these two projects will make it difficult to meet the objectives of the reengineered Address Canvassing operation and is likely to impact customer expectations and public trust of the Census Bureau.

8. The program issue titled “Modification to the 2020 Census Baseline Design” (created from LC-003_Meeting Cost Goal) was closed. The revised version of the 2020 Census Operational Plan was completed as of September 29, 2017 and is being made public at the 2020 Census Program Management Review on October 27, 2017. The revised version contains the baselined design for the 2020 Census.
9. The program issue titled “Delays in Provisioning Infrastructure for the 2018 E2E CT” remained open. Description: Contract award is dependent on the completion of the Supply Chain Risk Assessment (SCRA). SCRA's are not being approved in a timely manner by the Department of Commerce, resulting in additional procurement time. This has led to infrastructure, components, etc. being rejected, resulting in shortened test times for the System of

Systems in the 2018 End-to-End Census Test (2018 E2E CT). This has also resulted in a delay to provisioning infrastructure for Release C.

Impact: This situation impacts the Release Management schedule in addition to shortening the development and testing timeframes.

10. The program issue titled “dDaaS Stop Work Order” remained open.

Description: The decennial Device as a Service (dDaaS) contract was awarded on June 29, 2017 to CDW-G. On June 30, 2017, a protest was filed. The Government Accountability Office (GAO) issued a "stay" to stop performance on the contract. The "stay" meant the Census Bureau could not proceed in receiving work and services from CDW-G. Ron Jarmin, Performing the Non-Exclusive Functions and Duties of the Census Bureau Director, overrode this stay and work was resumed. The United States Federal Claims Court overruled the Census Bureau's resumption of work on August 11, 2017. On August 14, 2017, the Census Bureau contracting officer issued a new stop work order that will remain in effect until GAO resolves the protest.

Impact: dDaaS via CDW-G is in a "stop work" status. No work may be performed via the CDW-G contract until GAO issues their recommendation. The Census Bureau has initiated a contingency plan where devices and services are borrowed or acquired so work can continue on the 2018 End-to-End Census Test. Smartphones were scheduled to be provided for the Census Field Supervisors (CFSs), Recruiting Assistants (RAs) out of Providence, Rhode Island, and of course the Enterprise Censuses and Surveys Enabling (ECaSE) software developers, testers and trainers. Further, dDaaS was scheduled to provide all mobile devices and services for the remainder of the 2018 End-to-End Census Test operations and through 2020.

11. The program issue titled “Technical Integrator Contract Protest” was opened.

Description: The purpose of the Technical Integrator (TI) contract is to ensure that the 2020 Census System of Systems (SoS) integrates, scales, performs, is secure, and meets the 2020 Census Business Objectives. The TI will support the 2020 Census Program to provide architecture and engineering expertise to define, guide and execute the integration of the 2020 Census technical solution. The contract was awarded on August 26, 2016. The contract was protested shortly after it was awarded, but the Census Bureau was granted permission to continue working with the company initially awarded the contract until the protest is resolved. Another company may be awarded the contract as a result of the resolution of the protest, which is still ongoing.

Impact: The work currently being conducted by the company initially awarded the TI contract could be rendered useless if another company is awarded the contract because of the protest resolution. Critical components of the SoS may be negatively impacted if work already completed has to be started over, leading to schedule delays and additional costs.

12. The program issue titled “Delay in FY18 Operational Planning Activities” was opened.

Description: Activities related to system development are the priority for Fiscal Year (FY) 2018 and will receive the majority of the funding, based on the budget at the President’s level. Operational planning activities will not get sufficient funding to conduct the scheduled FY 2018 activities, which will have to be deferred to FY 2019.

Impact: Operational planning activities (e.g., requirements gathering, document writing, business continuity planning) likely to be delayed until FY 2019 affect the following operations:

- Integrated Partnerships and Communications
- Program Management
- Content and Forms Design
- Language Services
- Paper Data Capture
- Field Infrastructure

Delaying the activities means the timeframe available for development, testing, and integration will be shortened and may lead to activities being canceled.

Appendix

Appendix A: 2020 Census Operations and Purpose

Operations	Purpose
Census/Survey Engineering	
Systems Engineering and Integration	The Systems Engineering and Integration operation (SEI) is an IT operation that manages the delivery of a system of systems that meets 2020 Census Program business and capability requirements.
Security, Privacy, and Confidentiality	The Security, Privacy, and Confidentiality (SPC) operation ensures that all operations and systems used in the 2020 Census adhere to laws, policies, and regulations that: <ul style="list-style-type: none"> • Ensure appropriate systems and data security. • Protect respondent and employee privacy and confidentiality.
Content and Forms Design	The Content and Forms Design (CFD) operation performs the following activities: <ul style="list-style-type: none"> • Identify and finalize content and design of questionnaires and associated nonquestionnaire materials such as letters, postcards, inserts, envelopes, and field enumeration materials. • Ensure consistency across data collection modes and operations, including (but not limited to) questionnaire content, help text, mailing materials, and field enumeration materials. • Provide the optimal design and content of the questionnaires to encourage high response rates.
Language Services	The Language Services (LNG) operation performs the following activities: <ul style="list-style-type: none"> • Assess and support language needs of non-English speaking populations. • Determine the number of non-English languages and level of support for the 2020 Census. • Optimize the non-English content of questionnaires and associated nonquestionnaire materials across data collection modes and operations. • Ensure cultural relevancy and meaningful translation of 2020 Census questionnaires and associated nonquestionnaire materials.
Frame	
Geographic Programs	The Geographic Programs (GEOP) operation provides the geographic foundation in support of the 2020 Census data collection and tabulation activities within the Master Address File/Topologically Integrated Geographic Encoding and Referencing (MAF/TIGER) System. The MAF/TIGER System (software applications and databases) serves as the national repository for all of the spatial, geographic, and residential address data needed for census and survey data collection, data tabulation, data dissemination, geocoding services, and map production. Components of this operation include: <ul style="list-style-type: none"> • Geographic Delineations. • Geographic Partnership Programs. • Geographic Data Processing.
Local Update of Census Addresses	The Local Update of Census Addresses (LUCA) operation provides an opportunity for tribal, federal, state, and local governments to review and improve the address lists and maps used to conduct the 2020 Census. This operation is required by the Census Address List Improvement Act of 1994 (Public Law (P.L.) 103-430).
Address Canvassing	The Address Canvassing (ADC) operation serves two purposes: <ul style="list-style-type: none"> • Deliver a complete and accurate address list and spatial database for enumeration. • Determine the type and address characteristics for each living quarter.

Operations	Purpose
Response Data	
Forms Printing and Distribution	<p>The Forms Printing and Distribution (FPD) operation prints and distributes the following paper forms to support the 2020 Census mailing strategy and enumeration of the population:</p> <ul style="list-style-type: none"> • Internet invitation letters. • Reminder cards or letters or both. • Questionnaire mailing packages. • Materials for other special operations, as required. <p><i>Other materials required to support field operations are handled in the Decennial Logistics Management or Field Infrastructure operations.</i></p>
Paper Data Capture	<p>The Paper Data Capture (PDC) operation captures and converts data from 2020 Census paper questionnaires. This operation includes:</p> <ul style="list-style-type: none"> • Mail receipt. • Document preparation. • Scanning. • Optical Character Recognition. • Optical Mark Recognition. • Key From Image. • Checkout. • Form Destruction.
Integrated Partnership and Communications	<p>The Integrated Partnership and Communications (IPC) operation communicates the importance of participating in the 2020 Census to the entire population of the 50 states, the District of Columbia, and Puerto Rico to:</p> <ul style="list-style-type: none"> • Support Field recruitment efforts for a diverse, qualified Census workforce. • Engage and motivate people to self-respond, preferably through the Internet. • Raise and keep awareness high throughout the entire 2020 Census to encourage response. • Effectively support dissemination of Census data to stakeholders and the public.
Internet Self-Response	<p>The Internet Self-Response (ISR) operation performs the following functions:</p> <ul style="list-style-type: none"> • Maximize online response to the 2020 Census via contact strategies and improved access for respondents. • Collect response data via the Internet to reduce paper and NRFU.
Non-ID Processing	<p>The Non-ID Processing (NID) operation is focused on making it easy for people to respond anytime, anywhere to increase self-response rates. The operation accomplishes this by:</p> <ul style="list-style-type: none"> • Providing response options that do not require a unique Census ID. • Maximizing real-time matching of non-ID respondent addresses to the census living quarters address inventory. • Accurately assigning nonmatching addresses to census blocks. • Conducting validation of all non-ID responses.
Update Enumerate	<p>The Update Enumerate (UE) operation is designated to occur in areas where the initial visit requires enumerating while updating the address frame. The majority of the operation will occur in remote geographic areas that have unique challenges associated with accessibility. This operation includes both the UE TEA and the Remote Alaska TEA. In the UE operation, field staff update the address and feature data and enumerate respondents in person. The primary functions of UE include:</p> <ul style="list-style-type: none"> • Verifying and updating the address list and feature data. • Determining the type and address characteristics for each living quarter. • Enumerating respondents at housing units within the UE geographic areas. In the Remote Alaska TEA, people in housing units or group quarters and people at transitory locations will be enumerated.

Operations	Purpose
Group Quarters	<p>The 2020 Census Group Quarters (GQ) Operation will:</p> <ul style="list-style-type: none"> • Enumerate people living or staying in group quarters. • Provide an opportunity for people experiencing homelessness and receiving service at a service-based location, such as a soup kitchen, to be counted in the Census.
Enumeration at Transitory Locations	<p>The Enumeration at Transitory Locations (ETL) operation enumerates individuals in occupied units at transitory locations who do not have a Usual Home Elsewhere. Transitory locations include recreational vehicle parks, campgrounds, racetracks, circuses, carnivals, marinas, hotels, and motels.</p>
Census Questionnaire Assistance	<p>The Census Questionnaire Assistance (CQA) operation has three primary functions:</p> <ul style="list-style-type: none"> • Provide questionnaire assistance for respondents by answering questions about specific items on the census form or other frequently asked questions about the census; <ul style="list-style-type: none"> ▪ Tier 1: Provide telephone assistance via an automated menu (Interactive Voice Response, or IVR). ▪ Tier 2: Provide real-time assistance by CQA agents by telephone or web chat. • Provide an option for respondents to complete a Census interview over the telephone. • Provide outbound calling in support of NRFU Reinterview and Coverage Improvement.
Nonresponse Followup	<p>The Nonresponse Followup (NRFU) Operation serves two primary purposes:</p> <ul style="list-style-type: none"> • Determines or resolves housing unit status for addresses included in the NRFU workload. • Enumerates households that are determined to have a housing unit status of occupied.
Response Processing	<p>The Response Processing Operation (RPO) supports the three major components of the 2020 Census: pre-data collection activities, data collection activities, and post-data collection activities.</p> <p>Specifically, the operation supports the following:</p> <ul style="list-style-type: none"> • Create and distribute the initial 2020 Census enumeration universe of living quarters. • Assign the specific enumeration strategy for each living quarter based on case status and associated paradata. • Create and distribute workload files required for enumeration operations. • Track case enumeration status. • Run post-data collection processing actions in preparation for producing the final 2020 Census results. • Check for fraudulent returns.
Federally Affiliated Count Overseas	<p>The Federally Affiliated Count Overseas (FACO) operation obtains counts by home state of U.S. military and federal civilian employees stationed or deployed overseas and their dependents living with them.</p>
Update Leave	<p>The Update Leave (UL) Operation is designed to occur in areas where the majority of housing units do not have either mail delivered to the physical location of the housing unit, or the mail delivery information for the housing unit cannot be verified. The purpose of the operation is to update the address and feature data for the area assigned and to leave a choice questionnaire package at every housing unit identified to allow the household to self-respond. Occupants will be offered three different ways to complete the questionnaire including internet, phone, or by mailing back a completed paper questionnaire.</p> <p>The primary functions of UL include:</p> <ul style="list-style-type: none"> • Verifying and updating the address list and feature data. • Determining the type and address characteristics for each living quarter.

Operations	Purpose
	<ul style="list-style-type: none"> Leaving a questionnaire package at every housing unit for the household to respond to the census.
Publish Data	
Data Products and Dissemination	<p>The Data Products and Dissemination (DPD) operation performs three primary functions:</p> <ul style="list-style-type: none"> Prepare and deliver the 2020 Census apportionment data for the President of the United States to provide to Congress by December 31, 2020. Tabulate 2020 Census data products for use by the states for redistricting. Tabulate and disseminate 2020 Census data for use by the public.
Redistricting Data Program	<p>The purpose of the Redistricting Data Program (RDP) is to provide to each state the legally required P.L. 94-171 redistricting data tabulations by the mandated deadline of 1 year from Census Day: April 1, 2021.</p>
Count Review	<p>The Count Review (CRO) operation enhances the accuracy of the 2020 Census through remediating potential gaps in coverage by:</p> <ul style="list-style-type: none"> Implementing an efficient and equitable process to identify missing housing units. Identifying and correcting missing or geographically misallocated large group quarters and their population. Positioning remaining count issues for a smooth transition to the CQR operation.
Count Question Resolution	<p>The Count Question Resolution (CQR) operation provides a mechanism for governmental units to challenge their official 2020 Census results.</p>
Archiving	<p>The Archiving (ARC) operation performs the following functions:</p> <ul style="list-style-type: none"> Coordinates storage of the materials and data and provides records deemed permanent, including files containing the individual responses to the 2020 Census, to National Archives and Records Administration (NARA). Provides similar files to the NPC to use as source materials to conduct the Age Search Service.
Other Censuses	
Island Areas Censuses	<p>The purpose of the Island Areas Censuses (IAC) operation is to enumerate all residents of American Samoa, the Commonwealth of the Northern Mariana Islands, Guam, and the U.S. Virgin Islands; process and tabulate the collected data; and disseminate data products to the public.</p>
Test and Evaluation	
Coverage Measurement Design and Estimation	<p>The Coverage Measurement Design and Estimation (CMDE) operation develops the survey design and sample for the postenumeration survey for the 2020 Census. It also produces estimates of census coverage based on the postenumeration survey.</p>
Coverage Measurement Matching	<p>The Coverage Measurement Matching (CMM) operation identifies matches and nonmatches and discrepancies between the 2020 Census and the postenumeration survey, for both housing units and people in the sample areas. Both computer and clerical components of matching are conducted.</p>
Coverage Measurement Field Operations	<p>The Coverage Measurement Field Operations (CMFO) collects person and housing unit information (independent from 2020 Census operations) for the sample of postenumeration survey housing units. The postenumeration survey collects the same data as the 2020 Census for both housing units and persons. Additional information is collected by the postenumeration survey to help the Census Bureau understand census coverage and to detect erroneous enumerations.</p>
Evaluations and Experiments	<p>The Evaluations and Experiments (EAE) operation documents how well the 2020 Census was conducted; evaluations analyze, interpret, and synthesize the effectiveness of census components and their impact on data quality or coverage or both. Experiments</p>

Operations	Purpose
	<p>identify potential designs of early 2030 Census life-cycle research and testing; experiments are quantitative or qualitative studies that must occur during a decennial census in order to have meaningful results to inform planning of future decennial censuses. In general, experiments involve response comparisons between tests, new or modified methods, or procedures against 2020 Census production methods or procedures.</p> <p>The EAE operation performs the following functions:</p> <ul style="list-style-type: none"> • Measures success of critical 2020 Census operations and processes. • Formulates a 2020 Census experimental program that will further refine 2030 Census operational design options. • Captures and manages knowledge stemming from decennial research recommendations. • Contributes to the formulation of the 2030 Census Research and Testing phase objectives. • Develops a transition plan and appropriate organizational structures to establish 2030 Census life cycle planning. • Initiates other early planning activities for the 2030 Census, including the monitoring of policy concerns and technological, societal, and public cooperation trends. • Produces an independent assessment of population and housing unit coverage.
Infrastructure	
Decennial Service Center	The Decennial Service Center (DSC) will support 2020 Census field operations for decennial staff.
Field Infrastructure	<p>The Field Infrastructure (FLDI) operation performs the following functions:</p> <ul style="list-style-type: none"> • Provides the administrative infrastructure for data collection covering the 50 states, the District of Columbia, and Puerto Rico including: <ul style="list-style-type: none"> • Recruiting. • Hiring and onboarding. • Personnel and payroll administration. • Training. • Partnership support. • Management and supervision. • Clerical support.
Decennial Logistics Management	<p>The Decennial Logistics Management (DLM) Operation performs the following functions:</p> <ul style="list-style-type: none"> • Coordinates space acquisition for and lease management of the RCCs, ACOs, and the Puerto Rico Area Office (PRAO) in collaboration with FLD and the General Services Administration. • Provides logistics management support services (e.g., kit assembly, supplies to field staff) in collaboration with FLD and NPC.
IT Infrastructure	<p>The purpose of the IT Infrastructure (ITIN) operation is to provide the IT-related infrastructure support to the 2020 Census, including:</p> <ul style="list-style-type: none"> • Enterprise systems and applications. • Decennial-specific systems, applications, and interfaces. • Field IT infrastructure (RCC, field office, and paper data capture center). • Mobile computing. • Cloud computing.
Program Management	
Program Management	The Program Management (PM) operation defines and implements program management policies, processes, and the control functions for planning and implementing the 2020 Census in order to ensure an efficient and well-managed program.

Appendix B: Detailed Operational Plan Release Schedule

	Detailed Operational Plan	DOP Release Dates via Operational Plan v1.0	Revised release date v2.0	Revised schedule as of June 2017		
1	(8) Address Canvassing - (ADC)	Sept 2015		Dec 2017		
2	(7) Local Update of Census Addresses (LUCA)	Sept 2016	Sept 2016			
3	(4) Content and Forms Design (CFD)					
4	(5) Language Services (LNG)					
5	(12) Internet Self-Response (ISR)				Dec 2016	June 2017
6	(13) Non-ID Processing (NID)				Sept 2016	March 2018
7	(10) Paper Data Capture (PDC)				Dec 2016	March 2017, Dec 2018 rev
8	(22) Redistricting Data Program (RDP)					March 2018
9	(11) Integrated Partnership and Communications (IPC)				Sept 2016	Dec 2018
10	(17) Census Questionnaire Assistance (CQA)					Dec 2017
11	(19) Response Processing (RPD)				Mar 2017	June 2018
12	(6) Geographic Programs Operation (GEOP) -- Geographic Delineations Component (GEOP/GD)				No date released in 2020 Ops Plan	Sept 2016
13	(6) Geographic Programs Operation (GEOP) -- Geographic Partnerships Component (GEOP/GP)					
14	(6) Geographic Programs Operation (GEOP) -- Geographic Data Processing Component (GEOP/GDP)					
15	(34) IT Infrastructure (ITIN)		Mar 2017	April 2017		
16	(3) Security, Privacy and Confidentiality (SPC)					
17	(18) Nonresponse Followup (NRFU)		Dec 2016	June 2017		
18	(9) Forms Printing and Distribution (FPD)		Mar 2017			
19	(35) Update Leave (UL)	Operation added in FY17		Sept 2017		
20	(14) Update Enumerate (UE)	Sept 2017	Mar 2017	Sept 2017		
21	(15) Group Quarters (GQ)	Sept 2017	Jun 2017	Sept 2017		
22	(32) Field Infrastructure (FID)	Sept 2016		Dec 2017		
23	(33) Decennial Logistics Management (DLM)					
24	(31) Decennial Service Center (DSC)	Jan 2017				
25	(21) Data Products and Dissemination (DPD)				Oct 2017	
26	(30) Evaluations and Experiments (EAE)		Sept 2018			
27	(27) Coverage Measurement Design & Estimation (CMDE)	Sept 2017	Sept 2017	Sept 2018		
28	(28) Coverage Measurement Matching (CMM)					
29	(29) Coverage Measurement Field Operations (CMFO)					
30	(20) Federally Affiliated Americans Count Overseas (FAA)					
31	(16) Enumeration at Transitory Locations (ETL)					
32	(25) Archiving (ARC)	Sept 2018	Sept 2017	Sept 2018		
33	(23) Count Review (CRO)	Sept 2017	Sept 2018			
34	(26) Island Areas Censuses (IA)					
35	(24) Count Question Resolution (CQR)		Sept 2018			
36	(1) Program Management (PM)					
37	(2) Systems Engineering & Integration (SEI)					

- FY 16 release
- FY 17 release
- FY 18 release
- FY 18 re-release
- FY 19 re-release

Note: All reports are released via the 2020 Census Memorandum Series. This schedule was released September 28, 2016. Work on many Detailed Operational Plans was delayed so existing staff could focus on higher priority 2017 Census Test preparations and rework artifacts to account for scope changes.

Appendix C: Descriptions of Tests That Have Already Taken Place

Address Canvassing Test

The Address Canvassing Test conducted in 2016 focused on the following: (1) measuring the effectiveness of In-Office Address Canvassing through In-Field Address Canvassing; (2) measuring the effectiveness of In-Field Address Canvassing; and (3) understanding the implications of moving from Assignment Area (a grouping of blocks) to Basic Collection Unit (BCU), which encompasses the characteristics of both collection blocks and assignment areas.

The Address Canvassing Test included In-Office Address Canvassing and In-Field Address Canvassing. The In-Office Address Canvassing included the Interactive Review and Active Block Resolution activities. The In-Field Address Canvassing activity is full block listing of all living quarters. Both In-Office Address Canvassing and In-Field Address Canvassing are based on the same input data (i.e., Master Address File (MAF) and Topologically Integrated Geographic Encoding and Referencing (TIGER)) and will be completed in time to compare the results from both activities with each other.

This Test occurred in two sites, Buncombe County, North Carolina, and St. Louis, Missouri. The sites include a variety of living quarters and address types (i.e., city-style addresses, non-city-style addresses, and location descriptions). Census field representatives were hired to conduct In-Field Address Canvassing. All management and oversight activities occurred out of the regional offices.

2016 Census Test

The 2016 Census Test was an operational study of both self-response and nonresponse follow-up procedures. The self-response objectives included testing the provision of language support to limited English proficient populations, testing the ability to reach demographically diverse populations, and refining Real-Time Non-ID Processing (RTNP) methods.

The nonresponse follow-up objectives included the following strategies: the use of administrative records and third-party data to reduce cost while maintaining quality; reengineering field operations using models to reduce travel time and determine the best time for the enumerator to contact the respondent; and streamlining the staffing and supervisory structure.

Systems testing included the use of a Census Bureau server-based infrastructure¹ to support Self-Response and Non-ID Processing (for those responses where the Census ID is not used), and to measure the systems' abilities to manage a significant number of concurrent users. Also, this Test utilized Census Enterprise Data Collection and Processing (CEDCaP) systems (Control and Response Data System and the Multimode Operational Control System) for the first time in support of response processing operations. Data collection for the 2016 Census Test began in March 2016 and continued through June 2016 in Los Angeles County, California, and Harris County, Texas.

Appendix D: Acronyms

3PV	Third-Party Vendor
ABR.....	Active Block Resolution
ACA.....	Affordable Care Act
ACO	Area Census Offices
ACS	American Community Survey
ADDP.....	Associate Director for Demographic Programs
ADDUP.....	Address Canvassing Address Update File
ADSD	Applications Development and Services Division
AMO	Area Manager of Operations
AMSD	Administrative and Management Systems Division
AoA.....	Analysis of Alternatives
ARM.....	Administrative Records Modeling
ATAC.....	Automated Tracking and Control
ATO.....	Authorization To Operate
ATP	Architecture Transition Plan
ATT	Authority To Test
AVI.....	[Telephone: robocall]
AVT	Address Validation Test
AWS.....	Amazon Web Services
BAS	Boundary and Annexation Survey
BBSP	Block Boundary Suggestion Project
BCU.....	Basic Collection Unit
BYOD	Bring Your Own Device [The use of employee-owned equipment/services.]
CAP.....	Capability Requirements
C-SHaRPS	Census Schedule A Human Resources Payroll System
CASS.....	Coding Accuracy Support System
CAT	Customer Acceptance Testing
<i>CATI</i>	<i>Computer Assisted Telephone Interviewing</i>
CBAMS.....	Census Barriers, Attitudes, and Motivators Survey
CCs.....	Contact Centers
CDR.....	Critical Design Review
CEDCaP	Census Enterprise Data Collection and Processing
CES.....	Center for Economic Studies
CFD	Content and Forms Design
CHEC	Census Hiring and Employment Check
CIO-SP3.....	Chief Information Officer-Solutions and Partners3
CM	Coverage Measurement
CMDE.....	Coverage Measurement Design and Estimation
CMS	Center for Medicare and Medicaid Studies
COMPASS	Census Operations Mobile Platform for Adaptive Services and Solutions
COOP.....	Continuity of Operations
CQA	Census Questionnaire Assistance
CPASS.....	Census Public Access Security System
CRM.....	<i>Customer Relationship Management</i>
CSAC	Census Scientific Advisory Committee
CSM	Center for Survey Measurement
DAPPS	Decennial Applicant, Personnel, and Payroll System
DART.....	Decennial Architecture Requirements Team
DCBO	Decennial Communications and Budget Office
DCEO.....	Decennial Contracts Execution Office
DCMD	Decennial Census Management Division
dDaaS	decennial Device as a Service
DDSSO	Decennial Directorate Support Services Office
DID.....	Design Intent Drawings
DITD.....	Decennial Information Technology Division

DOP Detailed Operational Plan
 DPMO Decennial Program Management Office
 DPRG.....Data Products Redesign Group
 DROM..... Decennial Research Objectives and Methods Group
 DSSD Decennial Statistical Studies Division
 DTO Decennial Translation Office
 EAE Evaluations and Experiments
 ECaSE..... Enterprise Censuses and Surveys Enabling
 ECaSE-Enum.....Enterprise Censuses and Surveys Enabling-Enumeration
 ECaSE-ISR.....Enterprise Censuses and Surveys Enabling-Internet Self-Response
 ECaSE-OCS.....Enterprise Censuses and Surveys Enabling-Operational Control System
 EFU Evaluation Followup
 ENUM Enumerators in the Field
 ENUMPREP Enumeration Preparation
 eResponse IT....Electronic Response Data Independent Test
 ES..... English/Spanish, otherwise known as Bilingual
 ESB Enterprise Service Bus
 FAQ..... *Frequently Asked Questions*
 FMO..... Field Manager of Operations
 FY..... *Fiscal Year*
 FSCPE..... Federal-State Cooperative for Population Estimates
 GAADS Geographic Area Analysis and Delineation System
 GAO Government Accountability Office
 GEO Geography Division
 GPO *Government Publishing Office*
 GPMO.....Government Program Management Office
 GPSD..... Geographic Partnership Support Desk
 GQ Group Quarters
 GRF-C..... Geographic Reference File-Codes
 GRF-N Geographic Reference File-Names
 GUPS..... Geographic Update Partnership Software
 HU Housing Unit
 iCADE..... integrated Computer Assisted Data Entry System
 ICC Integrated Communications Contract
 ICD.....Interface Control Documentation
 IDIQ.....Indefinite Delivery/Indefinite Quantity
 IIP Integration and Implementation Plan
 IMb.....Intelligent Mail® Barcode
 IMS Integrated Master Schedule
 IPC Integrated Partnership and Communications
 IPT Integrated Project Team
 IPTS.....Intelligent Mail® Barcode Postal Tracking System*
 IR Interactive Review
 IRS *Internal Revenue Service*
 ISR Internet Self-Response
 ISSRO.....Information Systems Support & Review Office
 IT *Information Technology*
 ITSM.....*Information Technology Service Management*

*The IPTS is a Census Bureau system housed at the National Processing Center (NPC) used to ingest data from the United States Postal Service (USPS) IMb Tracing Service. The current system generates records for each mail piece when the mail piece is processed through an automated sort. These events can be correlated to an expected delivery date of outbound mail or business reply mail entering or making its way to a paper data capture facility and can be used to inform PDC staff of workload spikes. Automated mail tracing refers to the Census Bureau's use of USPS software to track the status of a barcoded mail piece (such a census questionnaire) in the mail stream; as a barcode is scanned at a Postal sorting facility or Post Office, Census Bureau users of the IPTS can see the status/location of that mail piece.

JAD Joint Application Development
JASON [An independent scientific advisory group that provides consulting services to the federal government on matters of science and technology.]
LCO Local Census Office
LIMA Listing and Mapping Application
LMS Learning Management System
LSO Local Supervisor of Operations
LUCA Local Update of Census Addresses
MAF Master Address File
MAF/TIGER..... Master Address File/Topologically Integrated Geographic Encoding and Referencing
MAFCS.....Master Address File Coverage Study
MAFUF Master Address File Update File
MAFX.....Master Address File Extract
MCM..... Mobile Case Management
MDM Mobile Device Management
MES Mission Enabling Services
MMVT..... MAF Model Validation Test
MOCS..... Multimode Operational Control System
MOJO [Term for Census Operational Control System for Reengineered Field Operations]
MTDB..... Master Address File/Topologically Integrated Geographic Encoding and Referencing system database
MTS.....MAF/TIGER Systems
NAC National Advisory Committee
NARA.....*National Archives and Records Administration*
NAS *National Academy of Sciences*
NCT National Content Test
NITAAC.....National Institutes of Health Information Technology Acquisition and Assessment Center
"Notify Me" [Census Bureau's Preregistration Tool]
NPC..... National Processing Center
NRFU Nonresponse Followup
NTC..... Note for Correspondents
OCEAA.....Office of Cost Estimation, Analysis, and Assessment
OCS Operational Control System
OIG *Office of the Inspector General*
OIS..... *Office of Information Security*
OMB *Office of Management and Budget*
OOS *Office Operations Supervisor*
OCR.....Optical Character Recognition
ORR Operational Readiness Review
ORT.....Operational Readiness Testing
OSR Optimizing Self-Response
OTMB.....Operational Testing and Management Branch
PCS Production Control System
PDC..... Paper Data Capture
PES..... Post Enumeration Survey
PIA.....Privacy Impact Assessment
PLBR.....Project-Level Business Requirements
PM *Program Management*
PMGB Portfolio Management Governing Board
PMR..... Program Management Review
Primus [Census Bureau's Internet Data Collection System]

PRR Production Readiness Review**
 PSAP Participant Statistical Areas Program
 PVSed [To make data private and secured]
 PWS.....Performance Work Statement
 PXP Partnership Experience Portal
 QAS.....*Quality Audit/Surveillance*
 QC..... *Quality Control*
 R&T Research and Testing
 RA Recruiting Assistant
 R&A.....Recruiting and Assessment
 RCC Regional Census Center
 RDP..... Redistricting Data Program
 RFI *Request for Information*
 RFP *Request for Proposal*
 RO..... Regional Office
 ROCKIT Reorganized Census with Integrated Technology [Reengineered Field Operations]
 RPMS.....Risk Profile Management System
 RRB Risk Review Board
 RTNP..... Real-Time Non-ID Processing
 RTOCS Research and Testing Operational Control System
 SBE Service Based Enumeration
 SDLC Systems Development Life Cycle
 SE..... *System Engineering*
 SE&I Systems Engineering and Integration
 SIMEX Human in the Loop Simulation
 SLC..... Survey Life Cycle
 SOA.....Service Oriented Architecture
 SoS.....System of Solutions
 SPC Security, Privacy, and Confidentiality
 SRR Systems Requirement Review
 STRUCT.....Structure Coordinate Update File
 TD.....Technical Directive
 TEA Type of Enumeration Area
 TEMP Test and Evaluation Management Plan
 TI Technical Integrator
 TIGER Topologically Integrated Geographic Encoding and Referencing
 TQA Telephone Questionnaire Assistance
 TRR Test Readiness Review
 UAA Undeliverable As Addressed
 UAT..... User Acceptance Test
 UE..... Update Enumerate
 UHE..... Usual Home Elsewhere
 USPS *United States Postal Service*
 UT..... Users Test
 UTS *Unified Tracking System*
 VTD..... *Voting Districts*
 WG *Working Group*
 WLM Workload Management
 Y&R *Young & Rubicam*

**This is a review to assess program-level test results to ensure systems are ready for operational testing. A PRR is held for each release and typically occurs 2-3 weeks prior to the release's Operational Readiness Review. If key stakeholders agree that any outstanding defects will not negatively impact the goals/objectives of the field test and the Operational Readiness Testing environment is operational, then systems are ready for production and to support Operational Readiness Testing.

Note: Nonitalicized acronyms are those that are used mainly at U.S. Census Bureau whereas italicized acronyms are widely employed elsewhere.